Hunnyhill Primary School - Skills Progression in Science

		EYFS	Year 1 Asking simple questions and	Year 2	Year 3 Asking relevent questions and using (Year 4 different types of scientific enquiries	Year 5 Planning different types of enqu	Year 6 uries to answer questions.
	NC		be answered in different way		to answer them			olling variables where necessary
	Z							
		Shows curiosity about	Explore the world around	Raise questions that help	Raise own questions about the world	Can decide how to gather evidence	Can study and raise questions	Can raise questions about local
		objects, events and people.	them and raise own	them become familiar with	around them and why this happens	to answer questions.	to answer (including about their	
		Questions why things	questions. (e.g growing,	scientific processes (e.g	the way they do (e.g.	Raise questions to help identify and	local environment throughout	adapted to their environment.
		happen.	animals in their	life processes that	the role of the roots and stem in	group (such as how a habitat	the	Can raise questions about a
		Asks questions to clarify understanding and aspects	habitat, everyday materials.)	are common to all living things, their local	nutrition and support, or how rocks are formed)	changes, animals and living things including plants).	year). Can ask relevant questions	range of phenomena e.g., rainbows, colours on soap
		of their familiar world e.g.	Can answer questions	environment, materials)	Recognise how and when to use	Can write a range of questions	and suggest reasons for	bubbles, objects
S		place they live or	supported by the teacher,	Can ask simple questions	secondary sources to answer	using the world around them and	similarities and differences.	looking bent in water.
n		natural world.	often through scenarios and		questions that cannot be answered	their own scientific knowledge.	Use their scientific experiences	
Asking questions			recognise questions can be answered in	Can use a range of	in practical science.	They recognise when secondary sources can be used to answer	to explore ideas and raise	range of materials in order to support classification.
es			different ways.	question stems. (e.g. ls a flame alive? Is a	Can write a range of questions relevant to the topic.	questions and can select	different questions. Can create further questions	Asks appropriate questions to
nt			Can begin to ask simple	deciduous tree dead in	Can answer questions posed by the	appropriate information from	from enquiries to investigate.	group and classify.
0	ŝ		questions and use simple	winter? What	teacher, independently or with	sources.	Independently uses secondary	Can use secondary sources to
ĥ	KPIs		secondary sources to find	makes the best habitat for	support.		sources to find relevant facts	research (e.g., unfamiliar
iki	K		answers. Able to ask yes and no	school can we find	Identify new questions from data. Can raise questions and carry out		about a topic. Raise further questions from	animals and plants from a broad range of
As			questions to sort and	something that is made	tests with support to find things out.		enquiries/research.	habitats).
			classify.	of wood? Which animal	Can carry out research using a small			Use ideas from secondary
				belongs to which offspring? Do seeds grow	range of secondary sources.			sources to support their ideas. Can raise questions to further
				quicker inside or out?)				prove a scientific enquiry.
				Know their questions can				
				be answered in different				
				ways. Use more than one				
				secondary source to				
				gather and present				
				information clearly.				
		EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			Asking simple questions and		Setting up up simple practical enquirie		Planning different types of enqu	
	NC		be answered in different way tests.	ys. Performing simple			including recognising and control	olling variables where necessary
		Find ways to solve	Begin to recognise different		Perform a range of scientific	Can identify the type of enquiry	Recognise when and how to	Children choose the type of
		problems/find new ways to	ways they may answer	comparative tests using	investigations including different	needed to answer a question.	set up comparative and fair	enquiry needed to carry out
		do things. Test out ideas.	scientific questions. Experience different types	own ideas	types of scientific enquiry. Set up practical enquiries:	Follow a plan to carry out observations and tests.	tests and explain which variables need to be controlled	their investigation. Children can pose and answer
S		Take risks through trial and	of enquiry including	Experience different types of enquiry including	comparative, and fair tests. (post it	Can select from a range of	and changed.	their own questions, controlling
ie		error.	practical activities.	practical activities.	note approach scaffolded by the	resources to gather evidence and		variables where necessary
Enquiries		Engage in open ended	Use practical resources	Within the planning frame	teacher).	answer questions, to classify,		independently.
b		activities. Choose the resources they	provided by the teacher and can suggest some	they may need for the test.	Children investigate and answer own questions linked to shared post it	Use post it note planning approach	causal relationships. Understand what type of	Decide whether they need to increase the sample size for
Ē		need for their chosen	resources of their own.	Can carry out simple tests	note planning frame	with more independence in	scientific enquiry is needed to	validity.
	ls I	activity from their	Can carry out simple tests	linked to the types of	Understand there are different	identifying variables and what needs	answer and prove/disprove	Children understand how to
ning	KPIs	environment.	to classify, compare or	enquiry: observation,	variables to be controlled. (Can	measuring. Children choose their	scientific questions or	gather data to prove a
uu	-		pattern seek.	testing, pattern seeking, identifying and	identify some variables e.g. what was changed and what was kept the	method to carry out the investigation.	phenomenon.	prediction. Can identify a range of factors
Planr				classifying and research.	same)	investigation.		which may affect their
д.					Follow basic instructions scaffolded			investigation.
					by the teacher to conduct			
					investigation. Use a range of equipment using			
					thermometers and data loggers (with			
					support).			
		EYFS	Year 1	Year 2		Year 4	Year 5	Year 6
		EYFS	Year 1 Using their observations and	Year 2 d ideas to suggest answers	Year 3 Using results to draw simple conclusi		Year 5 Using test results to make predi	Year 6 ictions to set up further
	NC		Using their observations and to questions	d ideas to suggest answers	Year 3 Using results to draw simple conclusi values, suggest improvements and ra	ons, make predictions for new lise further questions	Using test results to make predi comparative and fair tests	ictions to set up further
		Shows curiosity about	Using their observations and to questions Can make basic predictions	d ideas to suggest answers Draws on knowledge from	Year 3 Using results to draw simple conclusi values, suggest improvements and ra Uses evidence and subject	ons, make predictions for new ise further questions Use subject knowledge or research	Using test results to make predicomparative and fair tests Use subject knowledge,	Develops predictions not based
		Shows curiosity about objects, events and people.	Using their observations and to questions	d ideas to suggest answers	Year 3 Using results to draw simple conclusion values, suggest improvements and results and results are suggest improvements and results are suggest to refute statements.	ons, make predictions for new ise further questions Use subject knowledge or research to make predictions.	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous	Develops predictions not based on results of a scientific enquiry
us		Shows curiosity about	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed.	ons, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns.	Using test results to make predi comparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and	Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge.
ions		Shows curiosity about objects, events and people. Questions why things	Using their observations and to questions Can make basic predictions over things they can see or their own ideas.	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what	ons, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from	Using test results to make predi comparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their	Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support
ctions		Shows curiosity about objects, events and people. Questions why things	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed.	ons, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns.	Using test results to make predi comparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted.	Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions.
dictions		Shows curiosity about objects, events and people. Questions why things	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what	ons, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns.	Using test results to make predi comparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on	Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through
redictions	NC	Shows curiosity about objects, events and people. Questions why things	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what	ons, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns.	Using test results to make predi comparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of	Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions.
Predictions	NC	Shows curiosity about objects, events and people. Questions why things	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions a (predictions can be a guess). Ask questions about what might happen in the	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what	ons, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns.	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect	Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make
ng Predictions		Shows curiosity about objects, events and people. Questions why things	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what	ons, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns.	Using test results to make predi comparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of	Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further
king Predictions	NC	Shows curiosity about objects, events and people. Questions why things	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions a (predictions can be a guess). Ask questions about what might happen in the	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what	ons, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns.	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect	Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make
Aaking Predictions	NC	Shows curiosity about objects, events and people. Questions why things	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions a (predictions can be a guess). Ask questions about what might happen in the	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what	ons, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns.	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect	Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further
Making Predictions	NC	Shows curiosity about objects, events and people. Questions why things	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions a (predictions can be a guess). Ask questions about what might happen in the	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what	ons, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns.	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect	Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further
Making Predictions	NC	Shows curiosity about objects, events and people. Questions why things	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions a (predictions can be a guess). Ask questions about what might happen in the	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what	ons, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns.	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect	Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further
Making Predictions	NC	Shows curiosity about objects, events and people. Questions why things	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions a (predictions can be a guess). Ask questions about what might happen in the	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what	ons, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns.	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect	Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further
Making Predictions	NC	Shows curiosity about objects, events and people. Questions why things happen.	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary.	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future.	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what is observed or tested.	ons, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values.	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation.	ictions to set up further Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests.
Making Predictions	KPIS	Shows curiosity about objects, events and people. Questions why things	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future.	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what is observed or tested.	Ans, make predictions for new nise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values.	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation.	Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests. Year 6 range of scientific equipment,
Making Predictions	KPIS	Shows curiosity about objects, events and people. Questions why things happen.	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary.	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future.	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what is observed or tested.	Drs., make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values.	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation.	Citions to set up further Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests. Year 6
Making Predictions	NC	Shows curiosity about objects, events and people. Questions why things happen.	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying	Year 3 Using results to draw simple conclusivalues, suggest improvements and radiuses, suggest improvements and radiuses, suggest improvements and radiuses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observed accurate measurements using equipment, including thermometers and the statements are statements and the statements and the statements are statements and the statements are statements and the statements are statements.	Arations and, where appropriate, standard units, using a range of had aloggers	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr	Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests. Year 6 range of scientific equipment, recision, taking repeat readings
Making Predictions	KPIS	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying	Year 3 Using results to draw simple conclusivalues, suggest improvements and radius suggest improvements and radius suggest improvements and radius suggest intervents. Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observed accurate measurements using equipment, including thermometers are made and careful thermometers are made and the systematic and careful the systematic and the syste	Ans, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 vations and, where appropriate, standard units, using a range of ad data loggers Make systematic and careful	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life	Citions to set up further Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests. Year 6 range of scientific equipment, recision, taking repeat readings Children answer their own and
Making Predictions	KPIS	Shows curiosity about objects, events and people. Questions why things happen.	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying	Year 3 Using results to draw simple conclusivalues, suggest improvements and radiuses, suggest improvements and radiuses, suggest improvements and radiuses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observed accurate measurements using equipment, including thermometers and the statements are statements and the statements and the statements are statements and the statements are statements and the statements are statements.	Ans, make predictions for new hise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 vations and, where appropriate, standard units, using a range of ad data loggers Make systematic and careful observations to identify plants	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life	Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests. Year 6 range of scientific equipment, recision, taking repeat readings
Making Predictions	KPIS	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using	Year 3 Using results to draw simple conclusivalues, suggest improvements and radius suggest improvements and radius suggest improvements and radius suggest improvements. Make predictions from questions posed. Makes further predictions from questions from what is observed or tested. Year 3 Making systematic and careful observations accurate measurements using equipment, including thermometers and make systematic and careful observations. Look for naturally occurring patterns and relationships.	Dass, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 vations and, where appropriate, standard units, using a range of a data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals in their local environment with other plants and animals	Cictions to set up further Develops predictions not based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests. Year 6 range of scientific equipment, recision, taking repeat readings Children answer their own and others' questions on observations they have made. Their answers are based on
Making Predictions	KPIS	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observations.	Year 3 Using results to draw simple conclusivalues, suggest improvements and radius and the suggest improvements and radius and the suggest improvements. Make predictions from questions posed. Make predictions from questions from what is observed or tested. Year 3 Making systematic and careful observations equipment, including thermometers and relationships. Collect data from their own	Arrive and the predictions for new size further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 rations and, where appropriate, standard units, using a range of ad data loggers Make systematic and careful observations to identify plants and animals in their habitat sand how the habitat changes throughout the year.	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around	Children answer their own and others' questions on observations they have made. Their answers are based on evidence.
Making Predictions	KPIS	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observations.	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observations. Observe how different	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observations equipment, including thermometers and make systematic and careful observations. Look for naturally occurring patterns and relationships. Collect data from their own observations and measurements.	Ans, make predictions for new hise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 vations and, where appropriate, standard units, using a range of ad data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes throughout the year. Use observations to ask questions	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals in their local environment with other plants and animals around the world.	Children answer their own and others' questions on gesults of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests.
Making Predictions	NC KPIs NC	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its uses are. Know similarities and differences between the	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observations. With help and prompting, observe changes over time	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observe how different plants grow and record findings	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observations using accurate measurements using equipment, includng thermometers an Make systematic and careful observations. Look for naturally occurring patterns and relationships. Collect data from their own observations and measurements. Closely observe stages of plant lifecycle over a period of time,	Drs., make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 rations and, where appropriate, standard units, using a range of id data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes throughout the year. Use observations to ask questions and group objects using classification keys.	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around the world. Observe changes over a period of time. (e.g. animals)	Children answer their own and others' questions on observations they have made. Their answers are based on evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests.
Making Predictions	NC KPIs NC	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its uses are. Know similarities and differences between the natural world	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observe changes over time and can	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observations. Observe how different plants grow and record findings including similar plants at	Year 3 Using results to draw simple conclusivalues, suggest improvements and radiuslawing suggest improvements and radiuslawing the predictions from questions posed. Make predictions from questions from what is observed or tested. Year 3 Making systematic and careful observations. Look for naturally occurring patterns and relationships. Collect data from their own observations and measurements. Closely observe stages of plant lifecycle over a period of time, noting patterns.	Dass, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 rations and, where appropriate, standard units, using a range of a data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes throughout the year. Use observations to ask questions and group objects using classification keys. Observe closely and describe	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around the world. Observe changes over a period of time. (e.g. animals) Make own decisions about	Children answer their own and others' questions on observet ins they have made. Their answers are based on columnia and how they are adapted to their environment. Observe properties of materials
Making Predictions	NC KPIs NC	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its uses are. Know similarities and differences between the natural world around them.	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observations. With help and prompting, observe changes over time and can describe the changes.	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observations. Observe how different plants grow and record findings including similar plants at different stages of growth	Year 3 Using results to draw simple conclusivalues, suggest improvements and radius, suggest improvements and radius, suggest improvements and radius from the statements. Make predictions from questions posed. Makes further predictions from questions for what is observed or tested. Year 3 Making systematic and careful observations. Look for naturally occurring patterns and relationships. Collect data from their own observations and measurements. Closely observe stages of plant lifecycle over a period of time, noting patterns. Observe how water is transported in	Arrive and an animals in their habitat sand how the habitat changes throughout the year. Use observations to ask questions for the specification of the spec	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around the world. Observe changes over a period of time. (e.g. animals) Make own decisions about	Children answer their own and others' questions on observetions to based on results of a scientific enquiry but using own ideas and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests.
	KPIs NC KPIs NC	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its uses are. Know similarities and differences between the natural world	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observe changes over time and can	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying simple equipment. Can identify a variety of plants and animals using observations. Observe how different plants grow and record findings including similar plants at different stages of growth and	Year 3 Using results to draw simple conclusivalues, suggest improvements and radiuslawing suggest improvements and radiuslawing results to draw simple conclusions posed. Make predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observations curved or tested. Make systematic and careful observations. Look for naturally occurring patterns and relationships. Collect data from their own observations and measurements. Closely observe stages of plant lifecycle over a period of time, noting patterns. Observe how water is transported in plants.	Dass, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 rations and, where appropriate, standard units, using a range of a data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes throughout the year. Use observations to ask questions and group objects using classification keys. Observe closely and describe	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around the world. Observe changes over a period of time. (e.g. animals) Make own decisions about	Children answer their own and others' questions on observet ins they have made. Their answers are based on columnia and how they are adapted to their environment. Observe properties of materials
	KPIs NC KPIs NC	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its uses are. Know similarities and differences between the natural world around them. Observe and describe what	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observations. With help and prompting, observe changes over time and can describe the changes. Can identify and group,	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observe how different plants grow and record findings including similar plants at different stages of growth and notice similarities and differences.	Year 3 Using results to draw simple conclusivalues, suggest improvements and radius, suggest improvements and radius, suggest improvements and radius from the statements. Make predictions from questions posed. Makes further predictions from questions for what is observed or tested. Year 3 Making systematic and careful observations. Look for naturally occurring patterns and relationships. Collect data from their own observations and measurements. Closely observe stages of plant lifecycle over a period of time, noting patterns. Observe how water is transported in	Dass, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 vations and, where appropriate, standard units, using a range of ad data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes throughout the year. Use observations to ask questions and group objects using classification keys. Observe closely and describe processes such as changes of state. Observe and record evaporation over a period of time.	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around the world. Observe changes over a period of time. (e.g. animals) Make own decisions about	Children answer their own and observations they have made. Their answers are based on their answers are based on their characteristics and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests.
	KPIs NC KPIs NC	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its uses are. Know similarities and differences between the natural world around them. Observe and describe what they see using everyday	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observations. With help and prompting, observe changes over time and can describe the changes. Can identify and group, compare and contrast using	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observations. Observe how different plants grow and record findings including similar plants at different stages of growth and notice similarities and differences. Use their observations	Year 3 Using results to draw simple conclusivalues, suggest improvements and radiuses, suggest improvements and radiuses, suggest improvements and radiuses, suggest improvements. Make predictions from questions posed. Makes further predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observations. Look for naturally occurring patterns and relationships. Collect data from their own observations and measurements. Closely observe stages of plant lifecycle over a period of time, noting patterns. Observe how water is transported in plants. Observe patterns in the way magnets behave in relation to each other.	Dass, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 rations and, where appropriate, standard units, using a range of ad data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes throughout the year. Use observations to ask questions and group objects using classification keys. Observe closely and describe processes such as changes of state. Observe and record evaporation over a period of time. Identify differences, similarities or	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around the world. Observe changes over a period of time. (e.g. animals) Make own decisions about	Children answer their own and observations they have made. Their answers are based on their answers are based on their characteristics and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests.
	vation KPIs NC KPIs NC	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its uses are. Know similarities and differences between the natural world around them. Observe and describe what they see using everyday	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observations. With help and prompting, observe changes over time and can describe the changes. Can identify and group, compare and contrast using observations, video and	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observations. Observe how different plants grow and record findings including similar plants at different stages of growth and notice similarities and differences. Use their observations and ideas to suggest	Year 3 Using results to draw simple conclusivalues, suggest improvements and radius and the statements. Make predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observations and reasurements using equipment, including thermometers and relationships. Collect data from their own observations and measurements. Closely observe stages of plant lifecycle over a period of time, noting patterns. Observe how water is transported in plants. Observe patterns in the way magnets behave in relation to each other. Can make observations and decide	Dass, make predictions for new uise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 vations and, where appropriate, standard units, using a range of ad data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes throughout the year. Use observations to ask questions and group objects using classification keys. Observe closely and describe processes such as changes of state. Observe and record evaporation over a period of time. Identify differences, similarities or changes related to simple	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around the world. Observe changes over a period of time. (e.g. animals) Make own decisions about	Children answer their own and observations they have made. Their answers are based on their answers are based on their characteristics and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests.
	vation KPIs NC KPIs NC	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its uses are. Know similarities and differences between the natural world around them. Observe and describe what they see using everyday	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observations. With help and prompting, observe changes over time and can describe the changes. Can identify and group, compare and contrast using observations, video and	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observations. Observe closely of plants and animals using including similar plants at different stages of growth and notice similarities and differences. Use their observations and ideas to suggest answers to	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observating accurate measurements using equipment, including thermometers an Make systematic and careful observations. Look for naturally occurring patterns and relationships. Collect data from their own observations and measurements. Closely observe stages of plant lifecycle over a period of time, noting patterns. Observe how water is transported in plants. Observe patterns in the way magnets behave in relation to each other. Can make observations and decide how to record them to	Dass, make predictions for new ise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 rations and, where appropriate, standard units, using a range of ad data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes throughout the year. Use observations to ask questions and group objects using classification keys. Observe closely and describe processes such as changes of state. Observe and record evaporation over a period of time. Identify differences, similarities or	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around the world. Observe changes over a period of time. (e.g. animals) Make own decisions about	Children answer their own and observations they have made. Their answers are based on their answers are based on their characteristics and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests.
	vation KPIs NC KPIs NC	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its uses are. Know similarities and differences between the natural world around them. Observe and describe what they see using everyday	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observations. With help and prompting, observe changes over time and can describe the changes. Can identify and group, compare and contrast using observations, video and	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observations. Observe how different plants grow and record findings including similar plants at different stages of growth and notice similarities and differences. Use their observations and ideas to suggest	Year 3 Using results to draw simple conclusivalues, suggest improvements and radius and the statements. Make predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observations and reasurements using equipment, including thermometers and relationships. Collect data from their own observations and measurements. Closely observe stages of plant lifecycle over a period of time, noting patterns. Observe how water is transported in plants. Observe patterns in the way magnets behave in relation to each other. Can make observations and decide	Dass, make predictions for new uise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 vations and, where appropriate, standard units, using a range of ad data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes throughout the year. Use observations to ask questions and group objects using classification keys. Observe closely and describe processes such as changes of state. Observe and record evaporation over a period of time. Identify differences, similarities or changes related to simple	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around the world. Observe changes over a period of time. (e.g. animals) Make own decisions about	Children answer their own and observations they have made. Their answers are based on their answers are based on their characteristics and their characteristics and to pound classify based on their characteristics and
	KPIs NC KPIs NC	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its uses are. Know similarities and differences between the natural world around them. Observe and describe what they see using everyday	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observations. With help and prompting, observe changes over time and can describe the changes. Can identify and group, compare and contrast using observations, video and	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Vear 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observe how different plants grow and record findings including similar plants at differences. Use their observations and ideas to suggest answers to questions. Observe through video, first-hand observations	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observating accurate measurements using equipment, including thermometers an Make systematic and careful observations. Look for naturally occurring patterns and relationships. Collect data from their own observations and measurements. Closely observe stages of plant lifecycle over a period of time, noting patterns. Observe how water is transported in plants. Observe patterns in the way magnets behave in relation to each other. Can make observations and decide how to record them to	Dass, make predictions for new uise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 vations and, where appropriate, standard units, using a range of ad data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes throughout the year. Use observations to ask questions and group objects using classification keys. Observe closely and describe processes such as changes of state. Observe and record evaporation over a period of time. Identify differences, similarities or changes related to simple	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around the world. Observe changes over a period of time. (e.g. animals) Make own decisions about	Children answer their own and observations they have made. Their answers are based on their answers are based on their characteristics and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests.
Measurement	vation KPIs NC KPIs NC	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its uses are. Know similarities and differences between the natural world around them. Observe and describe what they see using everyday	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observations. With help and prompting, observe changes over time and can describe the changes. Can identify and group, compare and contrast using observations, video and	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observations. Observe how different plants grow and record findings including similar plants at different stages of growth and notice similarities and differences. Use their observations and ideas to suggest answers to questions. Observe through video, first-hand observations and	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observating accurate measurements using equipment, including thermometers an Make systematic and careful observations. Look for naturally occurring patterns and relationships. Collect data from their own observations and measurements. Closely observe stages of plant lifecycle over a period of time, noting patterns. Observe how water is transported in plants. Observe patterns in the way magnets behave in relation to each other. Can make observations and decide how to record them to	Dass, make predictions for new uise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 vations and, where appropriate, standard units, using a range of ad data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes throughout the year. Use observations to ask questions and group objects using classification keys. Observe closely and describe processes such as changes of state. Observe and record evaporation over a period of time. Identify differences, similarities or changes related to simple	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around the world. Observe changes over a period of time. (e.g. animals) Make own decisions about	Children answer their own and observations they have made. Their answers are based on their answers are based on their characteristics and subject knowledge. Use evidence to support predictions. Gathers evidence through practical science to support predictions. Use test result to make predictions to set up further comparative and fair tests.
Measurement	vation KPIs NC KPIs NC	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its uses are. Know similarities and differences between the natural world around them. Observe and describe what they see using everyday	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observations. With help and prompting, observe changes over time and can describe the changes. Can identify and group, compare and contrast using observations, video and	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Vear 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observe how different plants grow and record findings including similar plants at differences. Use their observations and ideas to suggest answers to questions. Observe through video, first-hand observations	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observating accurate measurements using equipment, including thermometers an Make systematic and careful observations. Look for naturally occurring patterns and relationships. Collect data from their own observations and measurements. Closely observe stages of plant lifecycle over a period of time, noting patterns. Observe how water is transported in plants. Observe patterns in the way magnets behave in relation to each other. Can make observations and decide how to record them to	Dass, make predictions for new uise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 vations and, where appropriate, standard units, using a range of ad data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes throughout the year. Use observations to ask questions and group objects using classification keys. Observe closely and describe processes such as changes of state. Observe and record evaporation over a period of time. Identify differences, similarities or changes related to simple	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around the world. Observe changes over a period of time. (e.g. animals) Make own decisions about	Children answer their own and observations they have made. Their answers are based on conserver they have made. Their answers are based on their characteristics and their characteristics and to pour their environment.
and Measurement	vation KPIs NC KPIs NC	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its uses are. Know similarities and differences between the natural world around them. Observe and describe what they see using everyday	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observations. With help and prompting, observe changes over time and can describe the changes. Can identify and group, compare and contrast using observations, video and	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observations. Observe how different plants grow and record findings inicluding similar plants at differences. Use their observations and ideas to suggest answers to questions. Observe through video, first-hand observations and measurement how different animals including humans grow	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observating accurate measurements using equipment, including thermometers an Make systematic and careful observations. Look for naturally occurring patterns and relationships. Collect data from their own observations and measurements. Closely observe stages of plant lifecycle over a period of time, noting patterns. Observe how water is transported in plants. Observe patterns in the way magnets behave in relation to each other. Can make observations and decide how to record them to	Dass, make predictions for new uise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 vations and, where appropriate, standard units, using a range of ad data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes throughout the year. Use observations to ask questions and group objects using classification keys. Observe closely and describe processes such as changes of state. Observe and record evaporation over a period of time. Identify differences, similarities or changes related to simple	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around the world. Observe changes over a period of time. (e.g. animals) Make own decisions about	Children answer their own and observations they have made. Their answers are based on conserver they have made. Their answers are based on their characteristics and their characteristics and to pour their environment.
and Measurement	vation KPIs NC KPIs NC	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its uses are. Know similarities and differences between the natural world around them. Observe and describe what they see using everyday	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observations. With help and prompting, observe changes over time and can describe the changes. Can identify and group, compare and contrast using observations, video and	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observations. Observe how different plants grow and record findings inilar plants at differences. Use their observations and ideas to suggest answers to questions. Observe through video, first-hand observations and measurement how different stargs orw and measurement how different stard sore and song observations and ideas to suggest answers to questions.	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observating accurate measurements using equipment, including thermometers an Make systematic and careful observations. Look for naturally occurring patterns and relationships. Collect data from their own observations and measurements. Closely observe stages of plant lifecycle over a period of time, noting patterns. Observe how water is transported in plants. Observe patterns in the way magnets behave in relation to each other. Can make observations and decide how to record them to	Dass, make predictions for new uise further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Make predictions for new values. Year 4 vations and, where appropriate, standard units, using a range of ad data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes throughout the year. Use observations to ask questions and group objects using classification keys. Observe closely and describe processes such as changes of state. Observe and record evaporation over a period of time. Identify differences, similarities or changes related to simple	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around the world. Observe changes over a period of time. (e.g. animals) Make own decisions about	Children answer their own and observations they have made. Their answers are based on conserver they have made. Their answers are based on their characteristics and their characteristics and to pour their environment.
Measurement	vation KPIs NC KPIs NC	Shows curiosity about objects, events and people. Questions why things happen. EYFS Explore the natural world making observations (e.g seasons) Explore different equipment and finding out what its uses are. Know similarities and differences between the natural world around them. Observe and describe what they see using everyday	Using their observations and to questions Can make basic predictions over things they can see or their own ideas. Can use some scientific vocabulary. Year 1 Observing closely using sim and Classifying Uses appropriate senses aided by equipment such as magnifying glasses and digital microscopes to make observations. With help and prompting, observe changes over time and can describe the changes. Can identify and group, compare and contrast using observations, video and	d ideas to suggest answers Draws on knowledge from observations to make a prediction. Can begin to test predictions and later answer questions (predictions can be a guess). Ask questions about what might happen in the future. Year 2 ple equipment. Identifying Observe closely, using simple equipment. Can identify a variety of plants and animals using observations. Observe how different plants grow and record findings inicluding similar plants at differences. Use their observations and ideas to suggest answers to questions. Observe through video, first-hand observations and measurement how different animals including humans grow	Year 3 Using results to draw simple conclusivalues, suggest improvements and ra Uses evidence and subject knowledge to refute statements. Make predictions from questions posed. Makes further predictions from what is observed or tested. Year 3 Making systematic and careful observating accurate measurements using equipment, including thermometers an Make systematic and careful observations. Look for naturally occurring patterns and relationships. Collect data from their own observations and measurements. Closely observe stages of plant lifecycle over a period of time, noting patterns. Observe how water is transported in plants. Observe patterns in the way magnets behave in relation to each other. Can make observations and decide how to record them to	Dass, make predictions for new isse further questions Use subject knowledge or research to make predictions. Raise further predictions from results based on patterns. Make predictions for new values. Water 4 vations and, where appropriate, standard units, using a range of ad data loggers Make systematic and careful observations to identify plants and animals in their habitats and how the habitat changes throughout the year. Use observations to ask questions and group objects using classification keys. Observe closely and describe processes such as changes of state. Observe and record evaporation over a period of time. Identify differences, similarities or changes related to simple	Using test results to make predicomparative and fair tests Use subject knowledge, observations, or previous learning to make predictions. Can add further detail and explanations for their predictions when prompted. Can base predictions on previous scientific enquiry. Can identify a range of variables which could affect their investigation. Year 5 Taking measurements, using a with increasing accuracy and pr where necessary Observe and compare the life cycles of plants and animals around the world. Observe changes over a period of time. (e.g. animals) Make own decisions about	Children answer their own and observations they have made. Their answers are based on conserver they have made. Their answers are based on their characteristics and their characteristics and to pour their environment.

Obser	Measurement KPIs	by comparisons then begin to use non-standard units. Make links and notice patterns in their experiences.	Use discrete e.g., counting and continuous data e.g. liquid to manageable common standard units. Can use simple measurements and equipment such as hand lenses and egg timers to gather data. Can use non-standard measures to compare.	length, height, temperature, and capacity. Can use rulers, scales, thermometers and measuring vessels with some degree of accuracy. Make decisions about what measurements to	Take accurate measurements using standard units, can measure and compare. (e.g., amount of liquid and height of a plant to nearest 1/2 cm) Use a range of equipment for measuring time, length, capacity and temperature. Begin to use a range of scales. Can read digital measurements from data loggers appropriately.	Uses a range of scales. Takes and records accurate measurements using standard units. Can record measurements to 2dp. Use thermometers to explore the effects of temperature on substances. Use data loggers to record sound in decibels and notice patterns. Use volt metres to measure voltage in a circuit to observe patterns and answer questions. Begin to gather repeat readings to increase accuracy.	Take repeat measurements where appropriate. Can choose the middle value or finds mean average. Select measuring equipment to give most precise results e.g., ruler, tape measure, trundle wheels, force metres with suitable scales. Can explain advantages and disadvantages of different measuring equipment. Children make quantitative measurements about conductivity and insulation.	Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings where appropriate. When collecting measurements, the decide whether they need to increase sample size for validity and reliability. Can record measurements to 3dp. Can use protractors and rulers and force metres to measure accurately choosing correct units.
		EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			Gathering and recording dat questions. Identifying & Clas		Gathering, recording, classifying and to help in answering questions. Reco		Recording data and results of in scientific diagrams and labels.	creasing complexity using classification keys, tables, scatter
	NC				language, drawings, labelled diagrams, keys, bar charts and tables		graphs, bar and line graphs.	
	Charts & Graphs	their own environment.	Begin to show accuracy in drawings and simple labels. Use key scientific vocabulary provided by the teacher.	observations e.g. using photographs, videos,	Record findings using scientifical language, drawings and labelled diagrams.	Record findings using systematic and careful observational drawings and labelled diagrams. Children supported to present the same data in different ways- choice over recording.	Children decide how to record data from a choice of familiar approaches. Present results in a variety of ways to help in answering questions.	Children present the same data in different ways to help answering the question. Record data and results with increasing complexity e.g accuracy of measurements, multiple data sets and different scales. Use scientific diagrams and labels.
ding	Sorting	Can count results. Start to mark make to record results.	Can complete a simple table of results. (Prepared) Can add marks to a chart to collect data.	chart. Use prepared tables to	Can complete a table (with given template) where they add headings and results.	Can create own tables with own headings. Can convert between units of measure.	Can produce own results table indicating cause and effect. Records results systematically.	They can calculate the mean and range of a set of data. Use multiple data sets.
Recording	Tables	groups using familiar categories.	Can using sorting rings to classify in more than 2 groups answering yes or no questions. Can sort using a simple 2 criteria Venn diagram.	and yes or no questions. Can sort into 2 groups explaining their reasons clearly.	Can use simple classification keys and Venn diagram with 2 sorting criteria and 1 intersecting. Begin to use Carroll diagrams. Can give reasons for their sorting criteria.	Can record using classification keys. Can use Venn and Carroll diagrams for classification, choosing own criteria.	Use and develop classification keys and other information records to identify, classify and describe. Can classify in a number of ways.	Can use and produce classification keys independently by posing questions.
	Recording	51	Can complete a prepared block graph/pictogram.	vertical bar	Can produce vertical and horizonal bar charts adding own labels and bars.	Can use discrete and continuous data, presenting data in a line/scatter graph. Can construct a pictogram/bar chart ind	Use line or scatter graphs to calculate range in a set of data. (Different scales used) Can produce bar graphs with various increments.	Can independently collect data and produce scatter and line graphs using various scales and multiple data. Can create bar charts and pie charts to present data.
		EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	NC				Reporting on findings from enquiries, including oral and written explanations, displays, or presentations and raise further questions. Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. Identifying differences, similarities or changes related to simple scientific ideas and processes		degree of trust in results, in oral and written forms such as , displays and presentations. Identifying scientific evidence that has been used to support or refute ideas or arguements.	
Interpreting and Conclusion	KPIS	things happen- making use of some recently introduced scientific vocabulary. Develop own narrative and explain by connecting ideas or events. Develop vocabulary which meets the breadth of their experiences	With help begin to notice patterns and relationships.	relevant scientific language and illustrations. Can identify casual relationships and patterns in results. Can identify which results do not fit the overall pattern and explain findings. Refers to the table of results when describing what has happened. Draws a basic conclusion (with support from the teacher) using own scientific knowledge, observations and comparisons. Uses results of investigations to answer	Begin to look for naturally occurring patterns and relationships from data. Draws conclusions based on observations. Can compare something using results and the conclusion is consistent with the data. Able to adjust opinion and predictions based on results. Can give reasons for results including any anomalies. Uses findings and results to answer questions raised. Use simple scientific language to discuss ideas and communicate their findings in ways appropriate for different audiences orally and written. Apply their knowledge of the topic when evaluating. Explain any amendments and how this impacted the investigation/test.	support their ideas. Look for casual relationships in data and identify evidence that refutes/supports ideas. Report on findings to an audience orally and in writing using appropriate scientific vocabulary for a range of audiences. Children use evidence to suggest values for different items tested using the same method. Draw conclusions based on straightforward evidence and current subject knowledge to support their findings, Suggest improvements and raise	generate simple comparative statements based on evidence. Use results to draw conclusions and can identify	sample. Use oral and written forms such as displays to report
		EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	NC		Using their observations and to questions.	ng their observations and ideas to suggest answers questions. Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. Using straightforward evidence to answer questions or to support their finding			Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and presentations. Identifying scientific evidence that has been used to support or refute ideas or arguements.	

Evaluating	KPIs	Talk about what I have found and say what worked well. Describe how things work in	to evaluate their tests or understanding against the learning objective.	improvements to their enquiries. Suggest some things that could be changed and evaluate why things went wrong.	Suggest improvements and raises further questions Uses evidence and subject knowledge to refute statements. Make suggest improvements from enquiries. Make basic statements about what worked well and what they would change. Use success ladders confidently to evaluate their tests or understanding against multiple criteria and suggest simple next steps.	Suggest ways to improve what they have already done. Begin to evaluate different aspects of their enquiries such as equipment. Begin to understand how the enquiry improves outcomes from their questions. Use different charts to evaluate such as ranking scales, star diagrams and success ladders. Suggest points for development based on the weakest aspects.	further observations, comparative and fair tests might be needed. Evaluate different aspects of their enquiries such as equipment and accuracy of measurements. State how the enquiry improves outcomes from their questions. Children can relate their results	Children can describe and evaluate their own and other people's scientific ideas using evidence from a range of sources. Evaluate their choice of method the control of variables, the precision and accuracy of measurements and the credibility of secondary sources Children use scientific language and evaluates how their enquiry has answered the question.	s. e
------------	------	---	---	---	---	---	--	---	---------