

EYFS Materials	Year 1 Animals	Year 2 Animals	Year 3 Plants	Year 4 Materials	Materials	Year 6 Animals
EYFS Materials  TAPS Brown Apples  Enquiry Type  Observation Over Time  Enquiry Question Stem  Let's predict which apple will turn brown first? Why? Which	Enquiry Type Observation over time  Enquiry Question Stem_How will the of the material change? (texture, appearance, smell)  Assessment Skill Use observations and ideas to suggest answers to questions  Maths	Enquiry Type Pattern Seeking Enquiry Question Stem Can people with bigger? (legs, hands, feetjump higher, grab more, run faster)  Assessment Skill: using their observations and ideas to suggest answers to questions	Enquiry Type: Fair Test  Enquiry Question Stem:  Does of water make plants grow taller? (change amounts of water)  Assessment skill:  Making systematic and careful observations and measurements using standard units  Enquiry type (2) Observation	Enquiry Type: Fair Test  Enquiry Question Stem: Does the mass of wet clothes change in different locations?  Assessment skill: Set up a fair test  Enquiry Type: Fair Test  Enquiry Question: Does the temperature of the affect	Enquiry Type (1) Fair Test  Question Stem  If we change the amount of what happens to the speed that the sugar dissolves? (number of stirs, volume of water, size of sugar grains, temperature of the water)  Assessment Skill	Faurity Type Fair Test  Enquiry Question Stem How is our heart rate affected by the duration of? (stationary exercise e.g. raised arms, balance, yoga pose, plank)  Assessment skill: Use test result to make predictions to set up further comparative and fair tests
apple has changed the most throughout the time period?  Assessment Skill  Predicting	Statistics: make practical pictogram (e.g. using Lego) with a 1:1 scale	Maths Statistics- practical block diagram	over time Question stem: How is water transported in? (thicker/taller/more than one) Assessment skill: Use straightforward scientific evidence to answer questions or to support their findings  Maths Measure- standard units (cm/m/mm, ml/l,g/kg, °C)	the rate of?  Assessment Skills: take accurate measurements using standard units, use a range of equipment, including thermometers and data loggers.  Maths Measure- standard units (cm/m/mm, ml/l,g/kg, °C)	Plan different types of scientific enquiry, including recognising and controlling variables  Enquiry Type (2) Observation Over Time  Question Stem How long does it take for the sugar stack to? (stack to fall, colour to reach the top, sugar to completely dissolve).  Assessment Skill Gather and record data of increasing complexity using tables  Enquiry type (3) Sorting and Classifying  Question Stem Which material will insulate an ice cube best?  Assessment skill Use test results to make predictions to set up further comparative and fair tests  Maths	Maths standard units (cm/m/mm, ml/l,g/kg, °C)



		Measure- standard units	
		(cm/m/mm, ml/l,g/kg, °C)	

Comparative Test   Sort and Classify   Enquiry Question Stem   Will the object float if it's   Perform simple tests   Perform simple tests	
Enquiry Type  Enquiry Question Stem Will the object float if it's? (light, heavy, big, small, made from different materials)  Assessment Skill Perform simple tests  Maths  Enquiry Type (2) Grouping and Classifying Assessment Skill Perform simple tests  Enquiry Type (2) Grouping and Classifying Assessment Skill Perform simple tests  Enquiry Type (2) Grouping and Classifying Assessment Skill Perform simple tests  Enquiry Type (2) Grouping and Classifying Assessment Skill Perform simple tests  Enquiry Type (2) Assessment Skill Perform simple tests  Enquiry Type (2) Grouping and Classifying Assessment Skill Perform simple tests  Enquiry Question Stem Which materials make an elfective shelter? Which materials is the most waterproof.  Assessment Skill Perform simple tests  Enquiry Type (2) Grouping and Classifying Assessment Skill Perform simple tests  Enquiry Question Stem Is best for making a window?  Assessment Skill  Perform simple tests to answer questions  Assessment Skill  Assessment Skill  Enquiry Question Stem Is best for making a window?  Assessment Skill  Assessment Skill  Enquiry Type (2) Grouping and Classifying  Enquiry Question Stem Is best for making a window?  Assessment Skill  Assessment Skill  Enquiry Type (2) Grouping and Classifying  Enquiry Question Stem Is best for making a window?  Assessment Skill  Assessment Skill  Perform simple tests to answer questions  Assessment Skill  Assessment Skill  Enquiry Type (2)  Assessment Skill  Enquiry Type (2)  Grouping and Classifying  Enquiry Question Stem Is best for making a window?  Assessment Skill  Perform simple tests to answer questions  Assessment Skill  Assessment Skill  Find the view floatest when you the steep of the size of a steep	: Pattern seeking
Enquiry Type    Enquiry Question Stem   Will the object float if it's   2 (light, heavy, big, small, made from different materials)   Assessment Skill   2 (light, heavy, big, small, made from different materials)   Assessment Skill   2 (light, heavy, big, small, made from different materials)   Assessment Skill   2 (light, heavy, big, small, made from different materials)   Assessment Skill   2 (light, heavy, big, small, made from different materials)   Assessment Skill   2 (light, heavy, big, small, made from different materials)   Assessment Skill   2 (light, heavy, big, small, made from different materials)   Assessment Skill   2 (light, heavy, big, small, made from different materials)   Assessment Skill   2 (light, heavy, big, small, made from different materials)   Assessment Skill   2 (light, heavy, big, small, made from different materials)   Assessment Skill   2 (light, heavy, big, small, made from different materials)   Assessment Skill   3 (light, heavy, big, small, made from different materials)   Assessment Skill   3 (light, heavy, big, small, made from different materials)   Assessment Skill   3 (light, heavy, big, small, made from different materials)   Assessment Skill   3 (light, heavy, big, small, made from different materials)   Assessment Skill   4 (light, heavy, big, small, made from different materials)   Assessment Skill   4 (light, heavy, big, small, made from different materials)   Assessment Skill   4 (light, heavy, big, small, made from different materials)   Assessment Skill   4 (light, heavy, big, small, made from different materials)   Assessment Skill   4 (light, heavy, big, small, made from different materials)   Assessment Skill   4 (light, heavy, big, small, made from different materials)   Assessment Skill   4 (light, heavy, big, small, made from different materials)   Assessment Skill   4 (light, heavy, big, small, made from different materials)   Assessment Skill   4 (light, heavy, big, small, made from different materials)   Assessment Skill   4 (light, heavy, big, small, m	
Will the object float if it's   Second recognise that they can be answered in different ways and recognise that they can be answered in different ways and refective shelter? Which materials is the most waterproof.   Assessment Skill   Enquiry Type (2)   Assessment Skill   Enquiry Type (2)   Comparative Test   Enquiry Question Stem   Enquiry Type (2)   Comparative Test	m: Can we change
Perform simple tests	shadow by changin
small, made from different materials)  Small, made from different materials)  Assessment Skill:  Take accura enquiries  Assessment Skill:  Take accura enquiries  Assessment Skill:  Take measurements using a range of equipment  Assessment Skill:  Take measurements using a range of equipment  Maths  Maths  Maths  Maths  Maths  Maths  Comparative Test  Comparative Test  Enquiry Type (2)  Grouping and Classifying  Perform simple tests  Assessment Skill  Enquiry Type (2)  Grouping and Classifying  Assessment Skill  Enquiry Question Stem  Is best for making a window?  Perform simple tests to answer questions  Maths  Assessment Skill  Perform simple tests to answer questions  Assessment Skill  Assessment Skill  Assessment Skill  Assessment Skill:	
Assessment Skill Perform simple tests  Assessment Skill Perform simple tests to answer questions  Assessment Skill Perform simple tests  Assessment Skill Perform simp	bject/number of
Assessment Skill Perform simple tests  Assessment Skill  Assessment Skill Perform simple tests  Assessment Skill Perform simple tests  Assessment Skill  Assessment Skill Perform simple tests  Assessment Skill Perform simple tests to answer questions  Assessment Skill Perform simple tests to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions  Maths  Assessment Skill:  Assessment Skill Perform simple tests  Assessment Skill Perform simple tests to draw simple conclusions, make predictions, make predictions for new values, suggest improvements and raise further questions  Maths  Assessment Skill:  Assessment Skill  Assessm	nce/angle of torch)
Assessment Skill Perform simple tests Which materials make an effective shelter? Which materials is the most waterproof.  Maths Measure: length/height, mass and, capacity and time using non-standard units (string, balancing scales, sand timer, cups)  Assessment Skill Perform simple tests  Assessment Skill Perform simple tests  Assessment Skill Perform simple tests  Assessment Skill Perform making a manyered in different ways enquiries  Assessment Skill Assessment Skill Perform simple tests  Assessment Skill Perform simple tests  Assessment Skill Assessment Skil	<u>kill:</u>
Perform simple tests	e measurements
Which materials make an effective shelter? Which material is the most waterproof.  Maths  Measure: length/height, mass and, capacity and time using non-standard units (string, balancing scales, sand timer, cups)  Assessment Skill  Perform simple tests  Identifying and classifying  Maths  Statistics: Bar chart  Maths  Statistics: Bar chart  Maths  Maths  Statistics: line or scatter graph (teacher led)  Maths  Maths  Maths  Maths  Maths  Maths  Statistics: line or scatter graph (teacher led)  Maths  Mat	data on a graph
effective shelter? Which material is the most Measure: length/height, mass and, capacity and time using non-standard units (string, balancing scales, sand timer, cups)  Assessment Skill  Perform simple tests  Enquiry Type (2)  Enquiry Question Stem  How has littering (could change e.g. deforestation) affected and their habitat? (vertebrates and/or invertebrates to choose from)  Enquiry Questions  Enquiry Type (2)  Assessment Skill  Enquiry Question Stem  Assessment Skill  Enquiry Question Stem  Enquiry Question Stem  Assessment Skill  Enquiry Question Stem  Enquiry Type (2)  Assessment Skill  Enquiry Type (2)  Enquiry Ty	
material is the most waterproof.  Measure: length/height, mass and, capacity and time using non-standard units (string, balancing scales, sand timer, cups)  Assessment Skill  Perform simple tests  Enquiry Type (2)  Grouping and Classifying  Enquiry Question Stem  Is best for making a window?  Enquiry Question Stem  Is best for making a window?  Assessment Skill	
and, capacity and time using non-standard units (string, balancing scales, sand timer, cups)  Assessment Skill  Perform simple tests  Enquiry Type (2)  Grouping and Classifying  Enquiry Question Stem  Is best for making a rocket?  Enquiry Question Stem  Is best for making a window?  Assessment Skill  Perform simple tests to answer questions  Assessment Skill	gle, area,
waterproof.  and, capacity and time using non-standard units (string, balancing scales, sand timer, cups)  Assessment Skill  Enquiry Type (2)  Grouping and Classifying  Perform simple tests  Enquiry Question Stem Is best for making a window?  Assessment Skill  Enquiry Question Stem Is best for making a window?  Assessment Skill	nits (cm/m/mm,
Assessment Skill  Perform simple tests  Enquiry Type (2) Grouping and Classifying  Enquiry Question Stem  Enquiry Question Stem  Enquiry Question Stem  Enquiry Question Stem  Enquiry Question over time  Assessment Skill  Enquiry Question Stem  Enquiry Question Stem  Enquiry Question over time  Assessment Skill  Enquiry Type (2)  Enquiry Question over time  Enquiry Type (2)  Enquiry Enduire over time  Enquiry Type (2)  Enquiry Ty	, , , ,
Assessment Skill  Perform simple tests  Enquiry Type (2) Grouping and Classifying  Enquiry Question Stem Assessment Skill  Enquiry Question Stem Is best for making a mind best for making a rocket?  Enquiry Question Stem Is best for making a window?  Perform simple tests to answer questions  Assessment Skill  Assessment Skill  Assessment Skill  Assessment Skill  Maths  Enquiry Question Stem How has littering (could change e.g. deforestation) affected and their habitat? (vertebrates and/or invertebrates to choose from)  Assessment Skill  Assessment Skill  Assessment Skill  Maths	-1
Assessment Skill  Perform simple tests  Enquiry Question Stem Perform simple tests  Enquiry Question Stem Is best for making a rocket?  Assessment Skill  Enquiry Question Stem Is best for making a window?  Perform simple tests to answer questions  Assessment Skill	(2): Observation
Assessment Skill  Perform simple tests  Enquiry Type (2) Grouping and Classifying  Enquiry Question Stem  Is best for making a rocket?  Assessment Skill  Enquiry Question Stem  Is best for making a window?  Perform simple tests to answer questions  Assessment Skill  Perform simple tests to answer questions  Assessment Skill  Assessment Skill  Maths  Is best for making a rocket?  Assessment Skill  Perform simple tests to answer questions  Assessment Skill  Assessment Skill  Maths	12).
Perform simple tests    Finguiry Type [2]   Same Section making a rocket.   How has littering (could change e.g. deforestation) affected   shadow size   Sha	
Perform simple tests    Assessment Skill   Assessment Skill	tion: How do
Enquiry Question Stem  Is best for making a window?  Perform simple tests to answer questions  Assessment Skill  Maths  Assessment Skill  Maths  Assessment Skill  Maths  And their habitat?  (vertebrates and/or invertebrates to choose from)  Additional section of the presentation	
Same   Skill   Perform simple tests to answer   (vertebrates and/or invertebrates to choose from)   Additional same to make present skill   Maths	
S best for making a window?   Additional s to choose from)   Additional s to make pre   Assessment Skill   Maths   Seesant Skill   See	stric day.
Window?  Assessment Skill  Assessment Skill  Maths  Use straightforward scientific	ill: use test results
Assessment Skill  Maths  Maths  Use straightforward scientific	dictions to set up
Less traightforward scientific	arative and fair
Statistics, practical Venn diagram	aracive and ran
Recognise that sorting lusing hoops	
I Injections can be answered in I in the second sec	and results of
different ways  Measure: length/height mass and lingreasing or lin	mplexity using
capacity and time using non-	
standard units (string, balancing	,
scales, sand timer, cups)	

EYFS Materials	Year 1 Animals	Year 2 Living Things	Year 3 Light	Year 4 Sound	Year 5 Forces	Year 6 Electricity
TAPS Scavenger Sort	Enquiry Type	Enquiry Type	Enquiry type: Pattern Seeking	Enquiry Type (1): Comparative Test	Enquiry Type (1): Fair Test	Enquiry Type: Fair Test
	Sort and Classify	Pattern Seeking (1)	Question stem: Does form			
			a shadow when a torch is shone	Enquiry Question Stem: Does	Enquiry Question Stem: How	
	Enquiry Question Stem	Enquiry Question Stem:	on it?	make a better phone?	does the affect time	



Enquiry Type	How are similar?	Which microhabitat do	Assessment skill-	(longer/shorter/thicker/thinner	taken to fall? (wing length,	Enquiry Question Stem: Does
Identifying, classifying and		prefer to live?	Gather and record data to	string, bigger/ smaller cups)	number of clips, size of paper)	the number/amount of
Grouping	Assessment Skill	Assessment Skill:	answer questions.			affect the bulb brightness?
	Identify and classify	Gather and record data to help in		Assessment Skill:	Assessment Skill:	
		answering questions.	Enquiry Type (2): Fair Test	identify differences, similarities or	Measure, taking repeat readings	Assessment Skill:
	<u>Maths</u>		Enquiry Question Stem: Does	changes related to simple scientific		Plan a scientific enquiry to
Enquiry Question Stem	Statistics: practical sorting	Maths:		ideas and processes		answer a question, recognising
What sets have we grouped?	circles		the amount of <mark>light (lux)?</mark>		Test	and controlling variables.
What is different about these		Statistics- practical tally and	(a selection of materials e.g.	Enquiry Type(2) Fair Test		
objects? Do the objects have		pictogram showing the number	cardboard, fabric, cello, paper)		Enquiry Question Stem: Does	
1 '	Enquiry Type 2	found in different areas (e.g.		Enquiry Question Stem: How does		<u>Maths</u>
anything in common?	Research	J	Assessment Skill:	theaffect the <mark>pitch</mark> ?	•	Scatter and line graph
		trees)	make systematic and careful	(size, length, width)	through water? (e.g. shape,	
	Enquiry Question Stem		observations and, where		mass, position)	
	What do eat?	Enquiry Type (2)	appropriate, take accurate	Assessment Skill:		
		Research	measurements using standard	Ask relevant questions and use	Assessment Skill:	
Assessment Skill		Enquiry Question Stem: Why do		different types of scientific enquiries	Explain the degree of trust in the	
		live in this habitat?	including thermometers and	to answer them	results	
Identify and Classify			<mark>data loggers</mark>			
			L	Additional skill: make systematic and		
			<u>Maths</u>	careful observations and, where	<u>Maths</u>	
			Measure- standard units	appropriate, take accurate	Measure- standard units	
			(cm/m/mm, ml/l,g/kg, °C)	measurements using standard units,	(cm/m/mm, ml/l,g/kg, °C)	
			using data logger.	use a range of equipment, including		
				<mark>data loggers</mark>		
				Matha		
				Maths		
				Measure- standard units		
				(cm/m/mm, ml/l,g/kg, °C) using		
				data logger.		

EYFS Our Senses	Year 1 Plants	Year 2 Plants	Year 3 Animals	Year 4 Living things	Year 5 Life Cycle	Year 6 Evolution
TAPS Taste Tests	Enquiry Type	Enquiry Type: Observation over	Enquiry Type		Enquiry Type: Research	Enquiry Type: Research
	Pattern seeking	time and Comparative Test	Research	Enquiry Type: Sort and Classify		
					Enquiry Question Stem: How is	Enquiry Question Stem: What
Enquiry Type	Enquiry Question Stem	Enquiry Question Stem: Do plants	Enquiry Question Stem	Enquiry Question Stem: Can I	the life cycle of different	do fossils and research tell us
	Do all plants have	need to	Do all have a backbone?	sort animals into and	to? (contrasting-	about how living things?
i atterni Seeking	?	germinate? (light, temperature,	(mini-beasts, fish, pets,	? (vertebrate,	mammal, amphibian, insect, bird)	(looked, lived, ate)
		sunlight)	mammals, reptiles, amphibians,	invertebrate, mammal, bird,		
	Assessment Skill:		birds)	flowering, non-flowering).	Assessment Skill:	Assessment Skill:
	Observe closely using	Assessment Skill:			Report and present findings from	Identifying scientific evidence
Enquiry Question Stem		Observe closely, using	Assessment Skill	Assessment Skill:	enquiries, in oral and written	that has been used to support or
Are all orange-coloured drinks	simple equipment	simple equipment	record findings using simple	gather, record, classify and	forms such as displays and other	refute ideas or arguments.
orang flavoured? Does the			scientific language, drawings,	present data in a variety of ways	presentations	
orang naroarear poes the	<u>Maths</u>	Maths:	labelled diagrams, keys, bar	to help in answering questions		Maths
		Measure: length/height, mass and,		, 0 4		Scatter and line graph
		capacity and time using non-			<u>Maths</u>	



colour give you a clue about the	Statistics: make practical block	standard units (string, balancing	use straightforward scientific		Statistics: classification keys	
flavour?	graphs (e.g. using Lego) with a	scales, sand timer, cups)	evidence to answer questions or			
navour:	1:1 scale		to support their findings	<u>Maths</u>		
!		Statistics: Practical bar chart of		Statistics Classification Law		
		height		Statistics: Classification key		
Assessment Skill			Enquiry Type (2)	(practical)		
Observing closely and testing			Pattern Seeking			
, ,			Do have bigger than			
			? (girls/boys/older			
			children/younger			
			children/adult/child)			
			(feet/legs/hands/heads)			
			Assessment Skill			
			Ask relevant questions and			
			use different types of scientific			
			enquiries to answer them			
			Maths			
			Statistics: scientific drawings and			
			labelled diagrams			
			_			
1						

EYFS Changes in our world	Year 1 Seasons	Year 2 Physics	Year 3 Magnets and Forces	Year 4 Electricity	Year 5 Earth and Space	Year 6 Living Things
TAPS Making Butter	Enquiry Type: Observation over time	Enquiry Type:	Enquiry Type: Comparative Test Enquiry Question Stem: Does	-		Enquiry Type: Group and Classify
Enquiry Type  Research using secondary	Enquiry Question Stem: What happens to the the tree across all seasons?		magnet?	Enquiry Question Stem: Will all conduct/not conduct electricity? (metal, plastic, fabric) Assessment Skill:	does planet move in the solar system?	Enquiry Question Stem: Can I ask yes no questions to classify vertebrates such as and invertebrates such as
sources	<u>Assessment Skill:</u> Gather and record data to help	Maths	Assessment Skill: Set up simple practical enquiries,	Report on findings from enquires, including oral and written explanations, displays or	Assessment Skill: Report and present findings from enquiries using appropriate	? Assessment Skill:
Enquiry Question Stem	in answering questions  Maths  Measure: length/height, mass	Measure: length/height, mass and, capacity and time using non- standard units (string, balancing scales, sand timer, cups)	Enquiry Type: (2) Comparative	conclusions		Record the results of a survey using a classification key  Enquiry Type (2): Research
Where does butter come from? How close is the nearest milk farm?	and, capacity and time using non-standard units (string, balancing scales, sand timer, cups)	scales, sand timer, cupsy	Enquiry Question Stem: Does the car travel further/faster on a or surface?  Assessment Skill:		Statistics: line or scatter graph (teacher led)	Enquiry Question Stem: Why do belong to this invertebrate group?
						Assessment Skill:



Assessment Skill  Record and communicate findings and observations.		Gather, record and present data (in a table or bar chart) to help in answering questions		Report and present findings using appropriate scientific language  Maths Classification key
		<u>Maths</u> Statistics: Bar chart		

# Equipment introduction

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Equipment:	Equipment:	Equipment:	Equipment:	Equipment:	Equipment:	Equipment:
Magnifying glasses	Magnifying glasses, microscopes, sand	Magnifying glasses,	Magnifying glasses,	As before.	As before and newton	As before.
	timer	microscopes, sand	thermometers. data		metres	
	*other equipment may include:	timer	loggers, measuring			
	balancing scales, non-unit measuring	With teacher support:	beakers/cylinders,			
	equipment such as cubes, string or	rulers (cm/m),	magnets, rulers and			
	jugs	measuring	metre rulers,			
		beakers/cylinders	microscopes, scales,			

/	SANKS	R
		0 11
(		
\.	\$ 1 th	ı
\	RIMARY S	SC

	(ml), scales (g) and	stopwatches.		
	stopwatches.	pipettes, test tubes		