

# **Working scientifically skills mapping**

**September 2024**

# Year 1 | Working scientifically skills mapping

Autumn	The human body						Seasonal changes		Materials						Seasonal changes		
	Ask questions	Answer questions and make conclusions	Take measurements	Take measurements	Take measurements	Take measurements	Take measurements	Ask questions	Gather, record and classify data	Gather, record and classify data	Make observations	Gather, record and classify data	Take measurements	Gather, record and classify data	Answer questions and make conclusions	Answer questions and make conclusions	Ask questions
Spring	Planting A	Animals						Caring for the planet		Seasonal changes		Planting B					
	Ask questions	Ask questions	Gather, record and classify data	Gather, record and classify data	Gather, record and classify data	Answer questions and make conclusions	Gather, record and classify data	Gather, record and classify data	Gather, record and classify data	Gather, record and classify data	Ask questions	Answer questions and make conclusions	Ask questions	Gather, record and classify data	Make observations	Gather, record and classify data	Consolidation
Summer	Plants						Planting C		Growing and cooking		Seasonal changes		Consolidation				
	Gather, record and classify data	Gather, record and classify data	Make observations	Gather, record and classify data	Gather, record and classify data	Gather, record and classify data	Answer questions and make conclusions	Make observations	Gather, record and classify data	Ask questions	Answer questions and make conclusions	Ask questions	Gather, record and classify data	Answer questions and make conclusions	Consolidation		

# Year 2 | Working scientifically skills mapping

Season	Topic	Skills
Autumn	Animals' needs for survival	Ask questions
		Gather, record and classify data
		Gather, record and classify data
		Gather, record and classify data
		Gather, record and classify data
		Answer questions and make conclusions
	Humans	Gather, record and classify data
		Gather, record and classify data
		Make observations
	Materials	Make observations
		Gather, record and classify data
		Gather, record and classify data
Ask questions		
Gather, record and classify data		
Gather, record and classify data		
Make observations		
Answer questions and make conclusions		
Take measurements		
Ask questions		
Answer questions and make conclusions		
Spring	Plants (light and dark)	Make observations
		Make observations
		Ask questions
		Ask questions
		Take measurements
	Living things and their habitats	Gather, record and classify data
		Answer questions and make conclusions
		Answer questions and make conclusions
		Answer questions and make conclusions
		Gather, record and classify data
		Make observations
		Gather, record and classify data
Gather, record and classify data		
Gather, record and classify data		
Plants	Gather, record and classify data	
	Consolidation	
Summer	Plants (bulbs and seeds)	Make observations
		Gather, record and classify data
		Ask questions
		Take measurements
	Growing up	Gather, record and classify data
		Ask questions
		Gather, record and classify data
		Gather, record and classify data
		Make observations
		Answer questions and make conclusions
	Plants	Make observations
		Make observations
Wildlife	Ask questions	
	Answer questions and make conclusions	
Consolidation		

# Year 3 | Working scientifically skills mapping

Season	Topic	Skills
Autumn	Skeletons	Ask questions
		Gather, record and classify data
		Gather, record and classify data
		Gather, record and classify data
		Present findings
	Movement	Answer questions and make conclusions
		Present findings
Nutrition and diet	Gather, record and classify data	
	Answer questions and make conclusions	
	Present findings	
	Answer questions and make conclusions	
	Answer questions and make conclusions	
Food waste	Ask questions	
	Present findings	
Rocks	Make observations	
	Gather, record and classify data	
	Make observations	
	Gather, record and classify data	
Consolidation	Consolidation	
Spring	Fossils	Ask questions
		Present findings
	Soils	Gather, record and classify data
		Answer questions and make conclusions
		Take measurements
		Take measurements
	Light	Answer questions and make conclusions
		Make observations
		Gather, record and classify data
		Gather, record and classify data
Light	Gather, record and classify data	
	Ask questions	
	Plan	
	Gather, record and classify data	
Consolidation	Consolidation	
Summer	Plants A	Answer questions and make conclusions
		Gather, record and classify data
		Ask questions
		Plan
		Plan
		Make observations
		Gather, record and classify data
	Present findings	
	Forces	Make observations
		Answer questions and make conclusions
	Magnets	Plan
		Answer questions and make conclusions
		Present findings
Plants B	Gather, record and classify data	
	Make observations	
Biodiversity	Plan	
	Present findings	
Biodiversity	Answer questions and make conclusions	
	Ask questions	
Biodiversity	Present findings	
	Ask questions	

# Year 4 | Working scientifically skills mapping

Season	Topic	Skills
Autumn	Group and classify living things	Gather, record and classify data Ask questions Gather, record and classify data Gather, record and classify data Present findings
	Data collection A	Gather, record and classify data Gather, record and classify data
	States of matter	Gather, record and classify data Answer questions and make conclusions Ask questions Make observations Plan Gather, record and classify data Answer questions and make conclusions Ask questions Make observations Answer questions and make conclusions
Spring	Sound	Ask questions Gather, record and classify data Make observations Plan Make observations Plan Make observations Answer questions and make conclusions
	Data collection B	Gather, record and classify data Gather, record and classify data
	Electricity	Gather, record and classify data Gather, record and classify data Answer questions and make conclusions Ask questions Answer questions and make conclusions Answer questions and make conclusions Gather, record and classify data
Summer	Data collection C	Gather, record and classify data Gather, record and classify data Present findings
	Habitats	Ask questions Gather, record and classify data Gather, record and classify data Present findings
	Deforestation	Ask questions Present findings Make observations Ask questions Plan Plan Gather, record and classify data Present findings Answer questions and make conclusions
	The digestive system	Answer questions and make conclusions Answer questions and make conclusions Gather, record and classify data Present findings
	Food chains	Answer questions and make conclusions Answer questions and make conclusions Gather, record and classify data Present findings
	Consolidation	Consolidation

# Year 5 | Working scientifically skills mapping

Season	Topic	Skills	
Autumn	Forces	Present findings	
		Plan	
		Plan	
		Take measurements	
	Space	Present findings	
		Take measurements	
	Global warming	Present findings	
		Take measurements	
	Spring	Properties of materials	Answer questions and make conclusions
			Answer questions and make conclusions
Plan			
Take measurements			
Animals including humans		Evaluate	
		Answer questions and make conclusions	
Life cycles		Answer questions and make conclusions	
		Answer questions and make conclusions	
Summer		Reproduction A	Answer questions and make conclusions
			Answer questions and make conclusions
	Plan		
	Take measurements		
	Reversible and irreversible changes	Present findings	
		Present findings	
	Plastic pollution	Evaluate	
		Evaluate	
	Reproduction B	Present findings	
		Present findings	
Consolidation		Consolidation	

# Year 6 | Working scientifically skills mapping

Season	Topic	Skills
Autumn	Living things and their habitats	Answer questions and make conclusions
		Gather, record and classify data
		Gather, record and classify data
		Gather, record and classify data
		Answer questions and make conclusions
		Present findings
		Present findings
	Electricity	Gather, record and classify data
		Gather, record and classify data
		Gather, record and classify data
Plan		
Take measurements		
Evaluate		
Renewable energy	Answer questions and make conclusions	
	Present findings	
Spring	Light	Answer questions and make conclusions
		Gather, record and classify data
		Gather, record and classify data
		Plan
		Take measurements
		Gather, record and classify data
		Answer questions and make conclusions
		Answer questions and make conclusions
	Light pollution	Answer questions and make conclusions
		Present findings
	The circulatory system	Ask questions
		Answer questions and make conclusions
		Make observations
		Ask questions
Present findings		
Evaluate		
Diet, drugs and lifestyle	Answer questions and make conclusions	
	Answer questions and make conclusions	
	Answer questions and make conclusions	
	Plan	
	Take measurements	
Evaluate		
Summer	Variation	Gather, record and classify data
		Gather, record and classify data
	Adaptations	Answer questions and make conclusions
		Answer questions and make conclusions
		Plan
		Present findings
		Plan
	Present findings	
	Fossils	Answer questions and make conclusions
		Present findings
		Present findings
	Consolidation	
	Themed projects	Ask questions
Plan		
Make observations		
Take measurements		
Gather, record and classify data		
Answer questions and make conclusions		
Evaluate		