

# Working scientifically skills mapping

September 2024

# Year 1 | Working scientifically skills mapping

Season	Topic	Skills
Autumn	The human body	Ask questions
		Answer questions and make conclusions
		Take measurements
		Take measurements
		Take measurements
		Take measurements
		Take measurements
Autumn	Seasonal changes	Ask questions Gather, record and classify data
	Materials	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
Autumn	Seasonal changes	Ask questions Gather, record and classify data
	Seasonal changes	Ask questions Gather, record and classify data
Spring	Planting A	Ask questions
	Animals	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
	Caring for the planet	Gather, record and classify data
		Gather, record and classify data
	Seasonal changes	Ask questions
		Gather, record and classify data
	Planting B	Make observations
Gather, record and classify data		
Consolidation	Consolidation	
Summer	Plants	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
	Planting C	Make observations
		Gather, record and classify data
	Growing and cooking	Ask questions
Answer questions and make conclusions		
Seasonal changes	Ask questions	
	Gather, record and classify data	
	Answer questions and make conclusions	
Consolidation	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		
Plastic	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		
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	
Light	Answer questions and make conclusions	
	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	
	Plants B	Make observations
		Answer questions and make conclusions
	Forces	Make observations
		Answer questions and make conclusions
		Plan
Answer questions and make conclusions		
Magnets	Gather, record and classify data	
	Make observations	
	Plan	
Plants B	Present findings	
	Answer questions and make conclusions	
Biodiversity	Ask questions	
	Present findings	

# 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 Take measurements 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
		Present findings
		Plan
		Take measurements
		Answer questions and make conclusions
		Answer questions and make conclusions
		Answer questions and make conclusions
Space	Answer questions and make conclusions	
	Gather, record and classify data	
	Present findings	
	Gather, record and classify data	
	Present findings	
	Answer questions and make conclusions	
	Answer questions and make conclusions	
	Gather, record and classify data	
	Global warming	Gather, record and classify data
	Answer questions and make conclusions	
Consolidation		
Spring	Properties of materials	Gather, record and classify data
		Gather, record and classify data
		Plan
		Take measurements
		Evaluate
	Answer questions and make conclusions	
	Animals including humans	Ask questions
		Gather, record and classify data
		Answer questions and make conclusions
		Answer questions and make conclusions
Gather, record and classify data		
Present findings		
Life cycles	Present findings	
	Gather, record and classify data	
	Gather, record and classify data	
	Present findings	
	Present findings	
Summer	Reproduction A	Present findings
		Gather, record and classify data
		Present findings
		Answer questions and make conclusions
		Plan
		Take measurements
	Reversible and irreversible changes	Evaluate
		Gather, record and classify data
		Take measurements
		Present findings
Present findings		
Evaluate		
Plastic pollution	Answer questions and make conclusions	
	Present findings	
Reproduction B	Evaluate	
	Evaluate	
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		