

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
Gather, record and classify data		
Ask questions		
Gather, record and classify data		
Make observations		
Answer questions and make conclusions		
Take measurements		
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		
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
	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		
Rocks	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
	Light	Take measurements
		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	
	Answer questions and make conclusions	
Consolidation		
Summer	Animals' needs for survival	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
		Plan
	Magnets	Answer questions and make conclusions
		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	
	Make observations	
	Ask questions	
	Make observations	
	Plan	
	Gather, record and classify data	
	Make observations	
	Ask questions	
	Make observations	
	Answer questions and make conclusions	
	Consolidation	
Spring	Sound	Ask questions
		Gather, record and classify data
		Make observations
		Plan
		Make observations
		Plan
		Make observations
	Data collection B	Answer questions and make conclusions
		Gather, record and classify data
	Electricity	Gather, record and classify data
		Gather, record and classify data
Answer questions and make conclusions		
Ask questions		
Energy	Answer questions and make conclusions	
	Gather, record and classify data	
Consolidation		
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
	The digestive system	Make observations
		Ask questions
		Plan
		Plan
		Plan
Present findings		
Answer questions and make conclusions		
Food chains	Answer questions and make conclusions	
	Answer questions and make conclusions	
	Gather, record and classify data	
	Present findings	

Year 5 | Working scientifically skills mapping

Season	Topic	Skills
Autumn	Forces	Present findings
		Plan
		Plan
		Take measurements
		Present findings
		Plan
	Space	Take measurements
		Answer questions and make conclusions
		Answer questions and make conclusions
		Answer questions and make conclusions
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	Plan
		Gather, record and classify data
		Answer questions and make conclusions
		Answer questions and make conclusions
Life cycles	Gather, record and classify data	
	Present findings	
	Gather, record and classify data	
	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
Plastic pollution	Present findings	
	Evaluate	
Reproduction B	Answer questions and make conclusions	
	Present findings	
		Evaluate
		Evaluate
		Consolidation

Year 6 | Working scientifically skills mapping

Season	Topic	Skills
Autumn	Light	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
		Present findings
		Gather, record and classify data
Plan		
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
		Evaluate
Diet, drugs and lifestyle	Answer questions and make conclusions	
	Answer questions and make conclusions	
	Answer questions and make conclusions	
	Plan	
	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	
	Evaluate	