

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		
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	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	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
	Plants B	Gather, record and classify data
Make observations		
Present findings		
Biodiversity	Answer questions and make conclusions	
	Ask questions	
Biodiversity	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	
Consolidation		
Spring	Sound	Ask questions
		Gather, record and classify data
		Take measurements
		Plan
		Answer questions and make conclusions
		Plan
	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		
Energy	Gather, record and classify data	
	Answer questions and make conclusions	
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
		Gather, record and classify data
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	
	Present findings	

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		
Autumn	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		
		Gather, record and classify data		
		Answer questions and make conclusions		
Autumn	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		
	Spring	Animals including humans	Ask questions	
			Gather, record and classify data	
			Ask questions	
			Answer questions and make conclusions	
Spring	Life cycles	Gather, record and classify data		
		Present findings		
		Present findings		
		Gather, record and classify data		
		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				
Summer	Reversible and irreversible changes		Evaluate	
			Gather, record and classify data	
			Take measurements	
			Present findings	
Summer	Plastic pollution	Answer questions and make conclusions		
		Present findings		
		Evaluate		
		Evaluate		
Summer	Reproduction B	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
Autumn	Electricity	Gather, record and classify data
		Gather, record and classify data
		Gather, record and classify data
		Plan
		Take measurements
		Evaluate
		Answer questions and make conclusions
Autumn	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	Consolidation	
Themed projects	Ask questions	
	Plan	
	Make observations	
	Take measurements	
	Gather, record and classify data	
	Answer questions and make conclusions	
Evaluate		