

- Identifying & Classifying
- Research
- Comparative Testing
- Observing Over Time
- Pattern Seeking



Working Scientifically Experiment Overview

	Class 2 (Y1/2)		Class 3 (Y3/4)		Class 4 (Y5/6)	
	Year A	Year B	Year A	Year B	Year A	Year B
Plants	Which tree has the biggest leaves? Do bigger seeds grow into bigger plants? = PS		What colour flowers do pollinating insects prefer?			
Animals including Humans		How can we organise all the zoo animals? How does a tadpole change over time?	How do skeletons of different animals compare? How do dentists fix broken teeth?			Is there a pattern between what we eat and how fast we run? How does my heart rate change over time?
Living things and their habitats		What conditions do woodlice prefer to live in?		Compare this collection of animals based on similarities and differences in their lifecycle.		Which is the most common invertebrate on our school playing field? How could you make a classification key for vertebrates/invertebrates or microorganism?
Seasonal Changes	How does the oak tree change over the year?					

	In which season does it rain the most?					
Materials + Rocks	Which materials float and sink? Which material makes the best umbrella? = CT	Which material would be best for the roof of the little pig's house? Which materials can be recycled?		Which rocks should I use for stepping stones in my garden? How does water change over time when left in different places?	How does a nail in salt water change over time?	
Light				What happens to my shadow throughout the day?	How does the length of daylight hours change in each season?	
Sound			When is our classroom the quietest and the loudest?			
Forces & Magnets			Which magnet is strongest?			How do submarines sink if they are full of air?
Electricity				How has electricity changed the way we live?	How has our understanding of electricity changes over time?	
Earth & Space					Is there a pattern between the size of a planet and the time it takes to travel around the sun?	
Evolution & Inheritance					Can you classify these observations into evidence for the idea of evolution and evidence against?	

