Science Knowledge Building

Processes and Changes	Methods	Observing and Recording	Scientific Vocabulary	Uses and Implications	Cross-Curricular (STEM)
Understand that the mass of an object has an effect on the displacement of water	Understand why some materials float and why some sinks, using evidence to draw conclusions	Observe and record objects that sink or float using volume and mass recordings	Know, understand and use the terms 'mass' and 'volume' appropriately	Understand why some boats and ships are manufactured to make them displace less water	Know how to develop an object that floats so that is more efficient in water (Design Technology)
Know that the process of displacement has an effect on water level	Know that prediction is an important element and predict whether a range of materials will float or sink	Observe and make recordings of floating and sinking objects	Know and understand the terms 'buoyancy' and 'displacement'	Know that displacement is factored into the manufacture of boats and ships	Know how to make an object that floats e.g. boat (Design Technology
Understand more complex scientific processes and know some factors that can affect change	**Understand that methods are a key part of safe experimentation and have secure knowledge of features**	**Know that clear observations and recordings support findings and prove theories**	**Know how scientific language learned relates to new science concepts and ideas**	**Understand how science affects our lives and the implications its use has on them**	**Understand that these links between science, technology, engineering and mathematics are key to many industries**

Athens v Sparta