

Topic – Pirates

**Science
Knowledge Organiser**

Learning Lens: Knowledge and Understanding of the World– Materials and Objects

Class: EYFS

Previous Knowledge

Can talk about some of the things they have observed, such as plants, animals, natural and found objects. Talk about why things happen and how things work. (Development Matters statements 30-50 months)

Project Hook or ‘Wow’ memory

Pirates– Letter from a pirates asking the children to help them make a pirate ship.

The key skills we want pupils to use during this topic:

Observational skills: experimenting and observing what happens when different materials are placed in water.

Recording Skills: verbal discussion about what they observe or drawings of what they observe

Interpreting: orally explain to the class which items sink and float after they have each tested some objects

Key vocabulary

Float	Rest or move on or near the surface of a liquid without sinking.
Sink	Go down below the surface of something, especially of a liquid; become submerged.
Material	The matter from which a thing is or can be made.
Investigate	Carry out a systematic or formal inquiry to discover and examine the facts.
Heavy	Of great weight; difficult to lift or move.
Light	having little weight : not heavy
Air	the invisible mixture of odourless tasteless gases that surrounds the earth

Learning Step	Planned Activities (Key Knowledge)
What is sinking and floating?	Exploration in water tray– free choice activities. Video on floating and sinking.
Which objects float? And why?	Exploration in water tray– free choice activities. Range of materials and objects to investigate
Investigation– Letter from pirate and making a pirate ship.	Letter from pirate Planning sheet to design ship using the knowledge that they have learnt Make ship, test, adapt etc...
Child Initiated Activities	<i>E.g.</i> <ul style="list-style-type: none"> • <i>Testing different materials</i> • <i>Boat making</i> • <i>Pirate Role Play</i> • <i>Pirate stories</i>

Statutory Requirements

Looks closely at similarities, differences, patterns and change. (Development Matters Statement 40-60 months)

Children know about similarities and differences in relation to places, objects, materials and living things. (Early Learning Goal)

