Year 1 & 2

## **Make A Boat That Floats**

**Knowledge Organiser** 

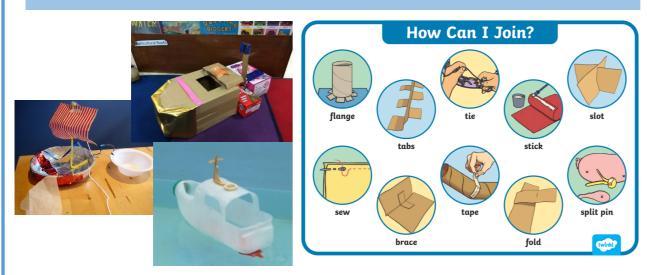
## Sticky Knowledge

**Objects filled with air float.** That is why hollow objects such as balloons or empty plastic bottles will float. These things float because they have air in them, and air is less dense than water; we say that these things are buoyant.

The shape of an object determines if it sinks or floats. The shape of an object can be changed so that even though the mass has not changed the increase in volume makes it less dense. For example, a plasticine ball placed in water, will sink, but flatten the plasticine and make it into a bowl shape and the volume is increased so it will float.

Consider the properties of the materials you are using.

Are they absorbent or waterproof?



## **Key Vocabulary:**

waterproof Not letting water through

**Absorb** to take in or soak up

**Buoyancy** Something that tends to float in water.

**Float** rest on or near the surface of a liquid

without

sinking.

**sink** go down below the surface of some-

thing, especially of a liquid or be-

come submerged.

**Design Brief** Information about who you are designing

the product for, what materials you can use and what problem you need to

solve.

**Prediction** a statement about something that might

happen or is expected to happen

variable something that can change

**experiment** a carefully planned test used to discover

something