



## Year 5 Autumn Term: Boat Lifts

**Main Theme:** Local PSHE Link: Pride **Key Skill** - Hydraulics

### Key Vocabulary

**Mechanism** - A part of a machine, or a set of parts that work together.

**Pulley** - A piece of equipment for moving heavy objects up or down, consisting of a small wheel over which a rope or chain attached to the object can be easily raised or lowered.

**Force** - In scientific use, a measure of the influence that changes movement.  
E.g. force of gravity.

**Syringe** - A hollow, cylinder-shaped piece of equipment used for sucking liquid/air out of something or pushing liquid/air into an object.

**Tubing** - Material in the form of a tube or tubes.

### Prior Learning

I know how to create a waterproof structure that carries figures and stays afloat for a length of time.

**Know how to:** To create a boatlift for a boater to ensure smooth travel from one lock to another.

### Key Questions

How do different mechanical systems work?

Why are elements required for a successful mechanism?

How do structure and shape affect the overall product produced?

