

Topic: Movement

Year: 2

Strand: Physics

**What should I already know?**

The shape of some materials can be changed when they are **stretched, twisted, bent** and **squashed**.  
Know how different toys move.

**Vocabulary**

bendy	an object that bends easily into a curved shape
force	the <b>pulling</b> or <b>pushing</b> effect that something has on something else
position	The <b>position</b> of someone or something is the place where they are in relation to other things
pull	When you <b>pull</b> something, you hold it firmly and use <b>force</b> in order to move it towards you or away from its previous <b>position</b>
push	When you <b>push</b> something, you use <b>force</b> to make it move away from you or away from its previous position
squash	pressed or crushed with such <b>force</b> that something loses its shape
stretchy	slightly elastic
twist	turn something to make a spiral shape

**Investigate!**

Observe how different objects move when they are **pushed** or **pulled**.  
Make a list of everyday activities that involve **pushing** or **pulling** objects (e.g. **pulling** a drawer open or **pushing** a pram.)  
Investigate the **forces** of **pushing** and **pulling** in PE. Observe how different toys move (e.g. tricycles, water wheels, pull along toys).  
Draw diagrams to show how objects move when a **force** is applied to it. Use arrows to show the direction of the movement.  
Explain how the strength of the **force** determines how fast or how far something moves.

**What will I know by the end of the unit?**

How do objects move?  
Objects move when they are **pushed, pulled** or **twisted**. These are all **forces**.  
A **push** or **pull** can move an object start to move, or stop it from moving.  
A **push** or **pull** can make an object speed up or slow down.  
A **push** or **pull** can make an object change direction.  
A **push** can **squash** some materials, and a **pull** can **stretch** some materials.

What are examples of **pulling forces**?



rowing a boat



tug of war



archery



pulling a sledge



opening a drawer



slingshot

What are examples of **pushing forces**?



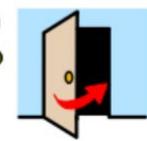
running



playing hockey



playing tennis



pushing a door closed



playing piano



pushing a pram

