

Forces

Year 3

I will compare how things move on different surfaces.

I will notice that some forces need contact between 2 objects, but magnetic forces can act at a distance.

I will observe how magnets attract or repel each other and attract some materials and not others.

I will compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnets.

I will identify some magnetic materials.

I will describe magnets as having 2 poles.

I will predict whether 2 magnets will attract or repel each other depending on which poles are facing.

Year 5

I will explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.

I will identify the effects of air resistance, water resistance and friction that act between moving surfaces.

I will recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect.