

**Year 3
Autumn 2
Forces**

Week	NC objectives	REMEMBER (prior knowledge)	KNOW (new knowledge)
1 2 3 4 5 6	<ul style="list-style-type: none"> compare how things move on different surfaces notice that some forces need contact between 2 objects, but magnetic forces can act at a distance observe how magnets attract or repel each other and attract some materials and not others compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials describe magnets as having 2 poles predict whether 2 magnets will attract or repel each other, depending on which poles are facing 	<ul style="list-style-type: none"> Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. (Y2 - Uses of everyday materials) 	<p>To know that pushes and pulls are forces.</p> <p>To know that some forces need contact between two objects e.g. For some forces to act, there must be contact e.g. a hand opening a door, the wind pushing the trees</p> <p>To know that when an object moves on a surface, the texture of the surface and the object affect how it moves. It may help the object to move better or it may hinder its movement e.g. ice skater compared to walking on ice in normal shoes.</p> <p>To know that magnets attract some objects and not others.</p>

			To know that magnetic forces can act at a distance.
			To know that magnets have a north and south pole and that these are the strongest part of a magnet
			To know that opposite poles attract, and the same poles repel.
			To know that objects that are attracted to a magnet are magnetic.
Vocabulary	<u>Prior knowledge vocabulary</u> Opposite, equal, texture, push, pull		<u>New vocabulary</u> force, contact, surface, magnetic, attract, repel, poles, friction