What should I already know?
I have found out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.

Knowledge
i. compare how things move on different surfaces ii. notice that some forces need contact between two objects, but magnetic forces can act at a distance iii. observe how magnets attract or repel each other and attract some materials and not others iv. 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 v. describe magnets as having two poles vi. predict whether two magnets will attract or repel each other, depending on which poles are facing

Year 3 Intention: In Science I will be learning about Forces and Magnets

Scientific Skills

i) asking relevant questions and using different types of scientific enquiries to answer them
ii) setting up simple practical enquiries, comparative and fair tests
iii) making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
iv) gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
v) recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
vi) reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
vii) using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
viii) identifying differences, similarities or changes related to simple scientific ideas and processes
using straightforward scientific evidence to answer questions or to support their findings

Vocabulary

force push pull twist contact force non-contact force magnetic force magnet strength bar magnet ring magnet button magnet horseshoe magnet attract repel magnetic material metal iron steel poles north pole south pole