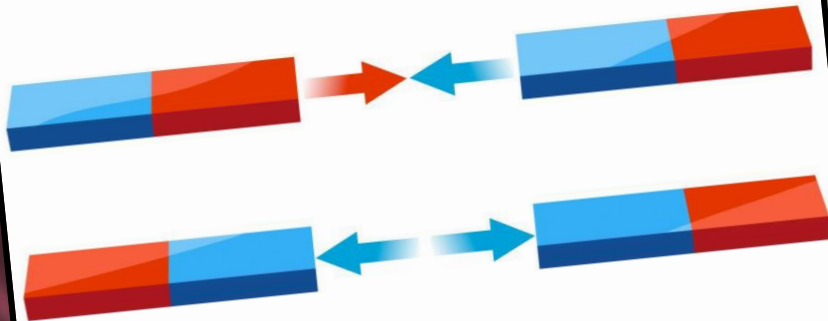


HOW CAN WE FEEL THE FORCE?

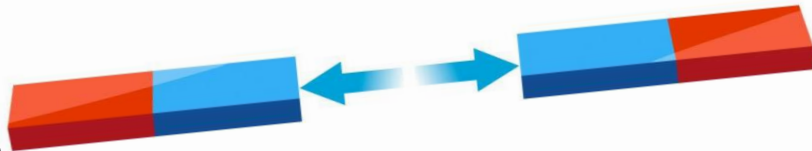
Many metals are magnetic... but not all.

MAGNETIC Or NON-MAGNETIC

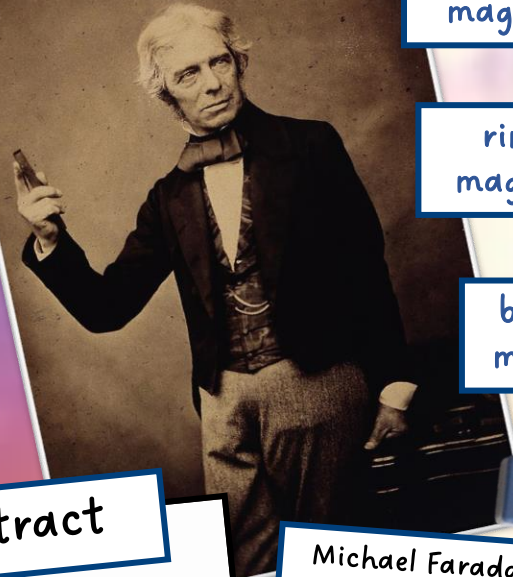
opposite poles attract



like poles repel



A force is a push or a pull. It makes an object start or stop, or move faster or slower.

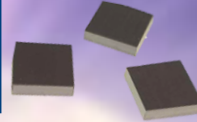


Michael Faraday was an English scientist, now famous for his work on magnetism.

horseshoe magnet



square magnet



ring magnet



button magnet



bar magnet



cylindrical magnet



Vocabulary:

- | | |
|-----------|----------|
| push | pull |
| force | object |
| slower | quicker |
| start | stop |
| magnet | magnetic |
| metal | pole |
| north | south |
| repel | attract |
| strongest | weakest |
| friction | surface |
| rough | bumpy |
| flat | smooth |



Scientist

HOW CAN WE FEEL THE FORCE?



Engineering Verbs:

cut
saw
attach
measure
join
stick
glue
design
refine
improve
evaluate
observe

Improve

?

Ask

Imagine

The
Design
Process

✓

Test

Plan

Create

More Vocabulary:

material
prototype
product
aesthetic
appealing
brief

What is engineering?

Engineering is the designing, testing and building of machines, structures and processes using maths and science.

Some engineers go through many different designs and prototypes before completing their idea.

What knowledge do I already have?

- I understand movements: sliding, pushing and pulling.
- I can make simple observations and answer questions
- I can gather and record information clearly.
- I can classify and group a variety of materials.
- I can make simple structures using some joins and materials.

