Name -
Class -

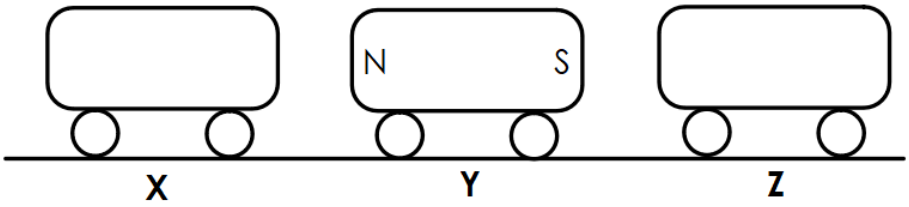
Science Mastery

Attract or Repel?

The diagram below shows three trolleys. Ahmet put a bar magnet on each trolley.

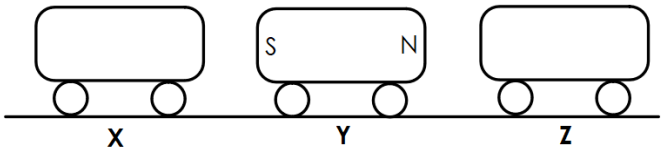
(a) He pushed trolleys X, Y and Z together.

- Magnet Y **attracted** magnet X.
- Magnet Y **repelled** magnet Z.



On the diagram above, label the north and south poles of magnets X and Z. Use the letters N and S.

(b) Ahmet turned trolley Y around. Trolleys X and Z were **not** turned around.



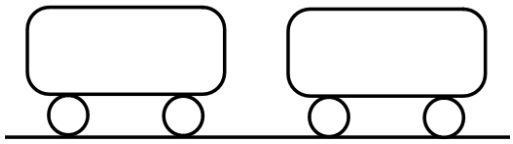
What would happen now when Ahmet pushed them all together?

Use either **attract** or **repel** to complete each sentence below.

Magnet Y would _____ magnet X.

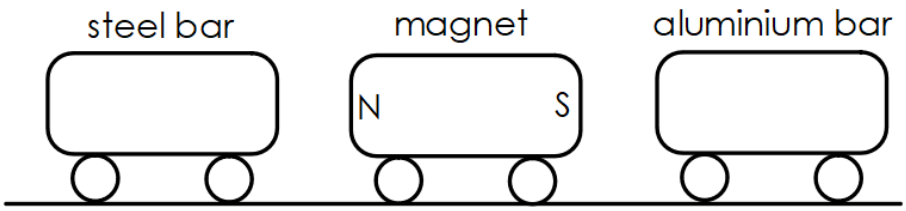
Magnet Y would _____ magnet Z.

(c) Ahmet held two trolleys close together and then let go.



The magnets repelled each other. **Draw an arrow** on both magnets to show which way they would move.

(d) Ahmet took a magnet, a steel bar and an aluminium bar. He put them on three trolleys as shown below.



(i) What happens to the steel bar as he moves it closer to the magnet?

_____

(ii) What happens to the aluminium bar as he moves it closer to the magnet?

_____