

Topic	Forces	Level	Key Stage 3 and GCSE
Outcomes	1. To think deeply about forces		

So you think you understand forces?

With your partner discuss the questions below. As you answer each question write down your ideas onto a mind-map. Each person should use a different colour pen so that you can see each other's thinking.

1. A cannon ball and a paper clip are dropped from identical heights. Which will hit the ground first?
2. Forces cannot be balanced if an object is moving. True or false?
3. You throw a ball across the room. Draw a diagram of the ball once it has left your hand and label the forces.
4. True or false, there is no gravity on the moon?
5. Imagine that a boat is floating in a swimming pool. The heavy steel anchor is thrown overboard. Would the level of the pool water increase, decrease or stay the same?
6. You are driving along in a car with a Helium balloon in the back. You break suddenly. What will happen to the Helium balloon? Will it move forwards, backwards or stay in the same position?

