

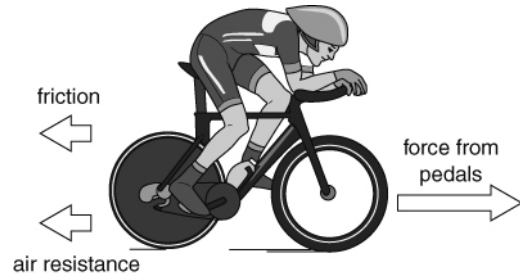
We can use arrows to show the direction and size of a force. The arrows are acting as a *model* to help us to think about forces.

The drawings all show the same cyclist moving at 5 m/s.

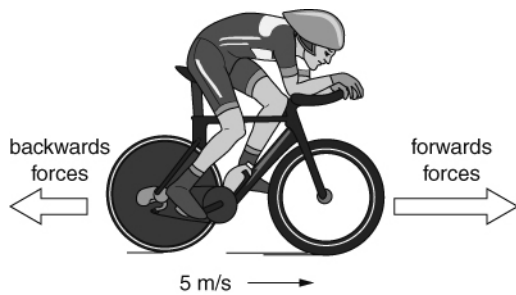
A



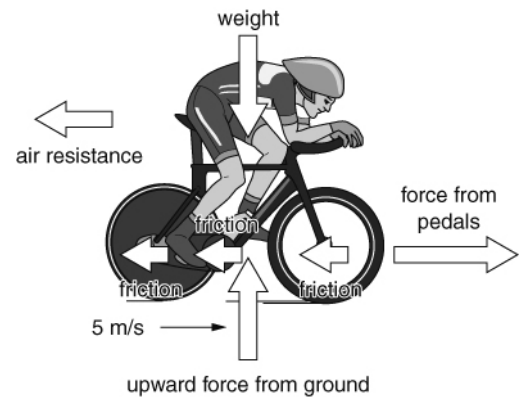
B



C



D



- 1 What does B tell you that A does not?
- 2 What does C tell you that A and B do not?
- 3 What does D tell you that the other diagrams do not?
- 4 Explain which diagram is best if:
 - a you want to work out what will happen to the speed of the bike.
 - b you want to know about the different kinds of force acting on the bike.
 - c you want to work out how you could make the bike go faster.
- 5 Look at your answers to question 4. Describe (or draw) your own combination of arrows that you think would be best for each purpose.

I can...

- Evaluate the usefulness of different ways of representing forces.