When Forces and Motion Collide

By Chris Oxlade

Before you read the book

1. In your own words explain what you think Force, Motion and Collide mean.

Read to page 8

- 2. How do you work out the speed of an object?
- 3. Explain what a **force** is.
- 4. Why are forces and motion closely linked?

Read to page 17

- 5. Explain what an unbalanced force is.
- 6. What is gravity?
- 7. Who is Isaac Newton?
- 8. Why do the planets not get pulled into the sun?

Read to page 23

- 9. Explain what friction is.
- 10. How can we reduce friction on a bike?
- 11. What is air resistance?
- 12. Why do race cars are planes have rounded often pointed fronts?
- 13. What is 'upthrust'?

Read to page 31

- 14. What are the 'poles' of a magnet?
- 15. Explain what a simple machine is.
- 16. Why do you think scientists or engineers need to be able to measure forces?
 - Make a list of forces and motion you can see around the class or school. Take a photo of this and label the force at work.
 Present your ideas carefully.
 - Find out about Isaac Newton. Present your information carefully.