

## CurriculumVisions Lesson

Students: fill in next to the word answer and return the document for assessment.

### Science

Book: Springs and magnets (3E)

Pages 14-23

Everything here is based on our Curriculum Visions book Springs and magnets (3E).

In this segment we are going to think about the importance of a healthy diet to animals.

You will need to go to pages 14-15 of the book.

Make a prediction about how many magnets there are in your home or classroom (or both). Now look around your classroom or your home (or both). How many things can you find that use magnets? Where are the magnets found? Was your prediction correct?

Answers will vary.....

Go to pages 16-17. Using a nail and a bar magnet, follow the instructions in the book and make the nail into a magnet. Then use it to pick up paper clips. How many paper clips can it pick up?

Answers will vary.....

Why don't the paper clips stay magnetic once they are not attached to the nail?

Answer.....

The paper clips are short term magnets but the nail magnet is

a long-term magnet

Go to pages 18-19. Design an experiment to test how far apart two bar magnets can be and still attract or repel each other. If your teacher agrees, try it out. Design an experiment to test how well a bar magnet works through different materials. If your teacher agrees, try it out.

Answers will vary.....

Go to pages 20-21. Why do iron filings make trails at the ends of a bar magnet?

Answer.....

Because they are attracted to the strongest parts of the magnet - the ends. They are showing how the magnet pulls.

Go to pages 22-23. Why will a needle that is floating in water always point to the north?

Answer.....

Because the Earth acts like a giant magnet. The needle is magnetised so that the pointed end is the south pole and so it is attracted to the north pole of the Earth.

Design a compass using a needle, a bar magnet and water. If your teacher agrees, go ahead and make the compass. Does it point to the north?

Answers will vary.....

If you are interested in this topic continue to browse the book and watch our amazing videos. They start right on the book cover.