

## CurriculumVisions Lesson

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

### Science

Book: Friction (4E)

Pages 12-19

Everything here is based on our Curriculum Visions book Friction (4E)

In this segment, we are going to think about ways to reduce friction.

You will need to go to pages 12-13 of the book. Which takes more force - getting an object moving or keeping it moving?

Answer.....

Getting it moving.

What causes an avalanche?

Answer.....

A small amount of snow is disturbed, which reduces the friction, and so the snow continues to move.

Go to pages 14-15. How do lubricants reduce friction?

Answer.....

Lubricants fill in the troughs on surfaces so that they glide more easily over each other. It also clings to surfaces and makes a slippery layer between them.

Why is oil a good lubricant?

Answer.....

It clings easily to surfaces, it does not disappear (evaporate), it is thin and flows easily.

Go to pages 16-17

Look around your home, school and neighbourhood. Make a list of things that use slipperiness to help them work.

Answers will vary.....

Answers could include: slides, table or floor wax, computer mouse, ice skating rink, mop/floor cleaner, skateboard, etc.

Go to pages 18-19

Can you think of two examples of using rolling to reduce friction and make it easier for objects to move?

Answers will vary.....

Answers could include: bicycle, car, building Stonehenge or the pyramids

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