

CurriculumVisions Lesson

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

Science

Book: Forces in action (6E)

Pages 4-11

Everything here is based on our Curriculum Visions book Forces in action (6E)

In this segment, we are going to learn about some basic forces.

Part 1

You will need to go to pages 4-5 of the book. Think about your day. List some times that you used a force today.

Answers will vary.....

Answers may include: bouncing a ball, lifting something, combing/brushing hair, driving in a car, etc – almost anything involves forces

Part 2

Go to pages 6-7. What units are used to measure force in a forcemeter?

Answer.....

Newtons

Describe how you could make a forcemeter to measure pulling force.

Answer.....

Attach a small pan and a pointer to an elastic band and place a piece of cardboard next to the pointer. Make a scale by putting a 100g weight in the pan and mark 1 Newton where the pointer comes to, then add 100g more and mark 2N, etc.

What kind of forcemeter is used to measure weight? What units

is weight measured in?

Answer.....

Scales; grams/kilograms

Part 3

Go to pages 8-9. How is gravity important to us? What are some problems that it may cause us?

Answer.....

Gravity pulls us toward the ground and stops us from flying off into space.

Gravity makes some things harder, like stopping athletes from jumping high or planes from flying easily. It also makes things fall quickly, so that they can break or become damaged.

Why don't the planets get pulled into the Sun by the force of gravity?

Answer.....

Because another force keeps them moving very fast and acts as a balancing force.

Part 4

Go to pages 10-11. Why are most things stationary?

Answer.....

Because forces are balanced.

What can you use to balance the forces on a heavy object and a light object? Why does this work?

Answer.....

A pivot and beam.

Because force depends on both weight and distance.

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

