Chapter 1: Science toolkit

Skills lab 1.2: Dissecting a chicken wing

Experiment worksheet answers (pages 6–7)

There are no questions for this experiment.

Experiment 1.3A: Making a balloon rocket

Experiment worksheet answers (pages 8–9)

There are no questions for this experiment.

Experiment 1.3B: Changing the independent variable

Experiment worksheet answers (pages 8–9)

Method

2 Write a hypothesis for your enquiry.

Student answers will vary.

What independent variable will you change from the first method?

Student answers will vary.

What dependent variable will you measure and observe?

Student answers will vary.

What variables will you need to control to ensure a fair test?

Student answers will vary.

How will you control them?

Student answers will vary.

Discussion

1 Was your hypothesis supported? Use evidence from your results to support your answer.

Student answers will.

2 Write a summary of your results.

Student answers will vary.

Experiment 1.4: Marshmallow slingshots

Experiment worksheet answers (pages 10–11 and 159)

Discussion

1 What was your independent variable? What was your dependent variable?

Student answers will vary according to the scientific question they chose.

2 What variables were difficult to control? Explain how you overcame this difficulty.

Student answers will vary.

3 Was your hypothesis supported? Use evidence from your results to support your answer

Student answers will vary.

Conclusion

What is the relationship between the distance the elastic is pulled back and the distance a marshmallow moves?

As the elastic is pulled back further, the marshmallow will travel a greater distance when released.