

Section 4 Assessment, Page 1

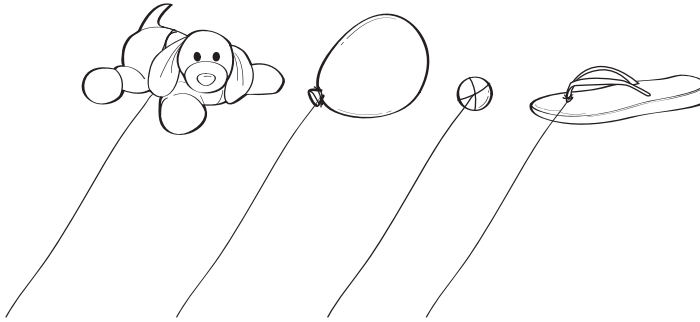


Vocabulary

- 1 What is Newton's third law of motion? Give an example.

Variables

Carlos tests the effect of mass on the time it takes a whirling object to complete one "orbit." He spins the objects at the same height on a string of the same length, using the same amount of force for each object. The diagram shows his materials.



- 2 What are his controlled variables?
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- 3 What is his independent variable? _____
- 4 What is his dependent variable?
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- 5 What other variable should be controlled but is not?
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Newton's Third Law of Motion

- 6 Use two coins for this step. Slide or flick the first coin so it hits against the second coin. Describe what happens to the two coins.

- 7 How does the motion of the two coins demonstrate Newton's third law of motion?

- 8 Place three coins in a line, touching each other. Slide back one coin and hit or flick it against the middle coin. Describe what you observe and explain how it relates to Newtons' third law of motion.
