



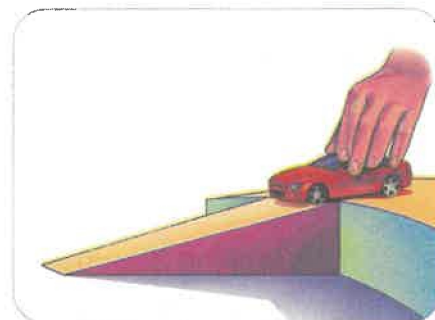
# Lesson Review

## Investigate Motion



1. This illustration shows a toy car placed on a ramp. When the car is let go, it will begin to roll down the ramp. What can be concluded about the forces acting on the toy car as it is rolling? **SC.5.P.13.1** **SC.5.P.13.4**

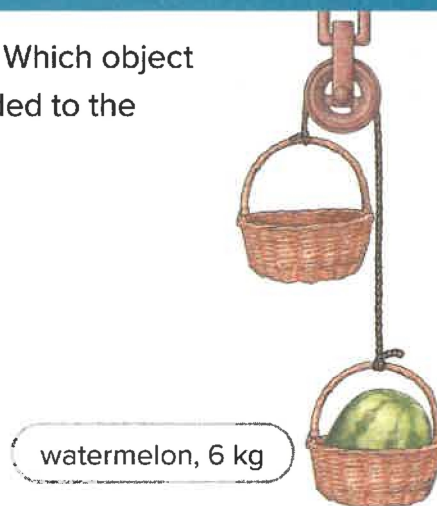
- A. The force pulling the car down the ramp is equal to the force of friction with the ramp.
- B. The forces of both gravity and friction pull the car down the ramp.
- C. The force of gravity is acting on the toy car, but the force of friction is not acting on it.
- D. The force pulling the car down the ramp is greater than the force of friction on the ramp.



2. How do the properties of a ramp affect the force on a car on the ramp? **SC.5.P.13.2**
- A. The steeper the ramp, the greater the force of friction on the car.
  - B. The longer the ramp, the greater the force of gravity on the car.
  - C. The steeper the ramp, the greater the force of gravity on the car.
  - D. The longer the ramp, the weaker the force of friction on the car.

3. In the illustration, a pulley is holding a 6 kg watermelon. Which object will lift the watermelon to the top of the pulley when added to the second basket? **SC.5.P.13.3**

- o A. bowling ball, 7 kg
- o B. brick, 3 kg
- o C. barbell, 5 kg
- o D. pineapple, 1 kg



4. Gene forms the hypothesis that the strength of a push affects the motion of an object. Plan an experimental investigation that could test this hypothesis. **SC.5.P.13.2**

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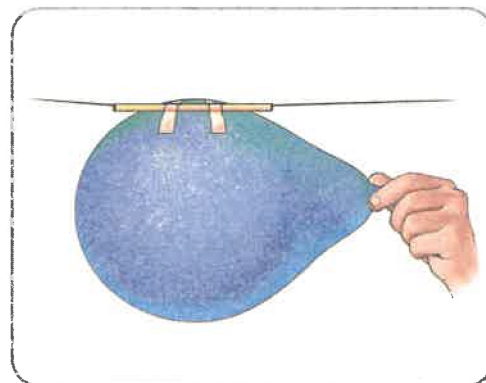
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5. In the illustration, Elaine has designed an experimental investigation on the forces that affect the motion of a balloon rocket.

How could she test the effect of gravity on the motion of the balloon? **SC.5.P.13.1 SC.5.N.2.1**



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