Two-Stage Balloon Rocket

Name: _____

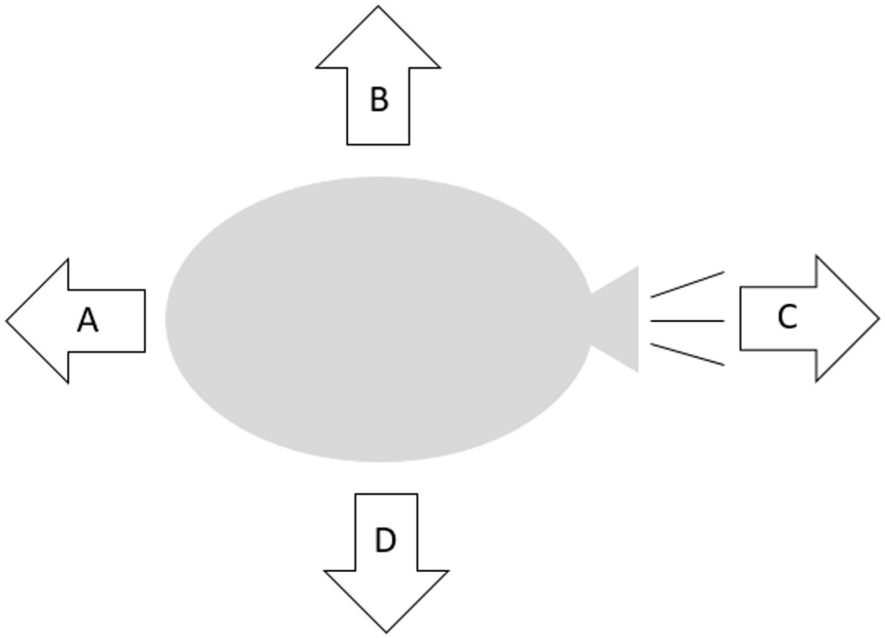
Date: _____

Student quiz

Directions: Circle the best answer for each question below.

1. Which force pushes the balloon rocket forward along the string?
   a. Weight of the rocket stages
   b. Friction on the straw
   c. Reaction from the air being pushed out the back of the balloon
   d. None of the above

2. In which direction will the balloon move when air escapes from the nozzle? (Circle the correct arrow.)



3. If they started with the same total amount of fuel and total weight, which would travel farthest?
   a. One-stage rocket
   b. Two-stage rocket
   c. Three-stage rocket
   d. They would all travel the same distance

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Directions: Circle the best answer for each question below.

4. What are some variables you could change in the balloon rocket setup?
    a. The amount of air in the balloons
    b. Where the straws are taped to the balloons
    c. Where the cardboard ring is placed along the length of the balloons
    d. All of the above

5. Making the balloon rocket heavier (for example, by taping pennies to it) while keeping all other variables the same would:
    a. Make the rocket travel farther
    b. Make the rocket travel less far
    c. Not affect the distance the rocket travels