

Design a Paper Helicopter

Name: _____

Student quiz

Date: _____

Directions: Select the correct answer for each question below.

1. The gravitational pull **of the Sun** is responsible for the following:
 - a. Pulling the solar system planets in their orbit.
 - b. Making Earth spin around its axis.
 - c. Objects weighing less on lighter and smaller planets.
 - d. All of the above.

2. Gravitational pull:
 - a. pulls objects with mass closer together.
 - b. pushes objects with mass away from each other.
 - c. depends on the weight of objects.
 - d. becomes stronger when objects are farther away from each other.

Directions: Select the correct answer and give two examples to support your answer.

3. Gravitational pull is only noticeable when the mass of at least one of the interacting objects is large.
 - a. This statement is false.
 - b. This statement is correct.

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Directions: Select the correct answer and give an explanation.

4. A helicopter that flies on Mars will most likely also fly on Earth.

- a. This statement is false.
- b. This statement is correct.

Explain using the terms *weight* and *lift*.

Directions: Answer the question below.

5. Why do we have iterations in the engineering process?