



Learning Activity Worksheet Q3 Science 6 –Week 1

Name: _____ Date: _____
Rating/Score _____

Infer How Friction And Gravity Affect Movement Of Different Objects

ACTIVITY .1 Read each statement carefully. Choose the letter of the best answer:

- Which of the following statements is true?
 - Friction makes an object slide.
 - Gravity pushes an object upward
 - Force is needed to stop an object
 - An object in motion will remain in motion.
- A boy sits on a grassy slope . What force stops him from sliding down?
 - Friction
 - Magnetic force
 - Gravity
 - Weight
- Which of the following is an example of increasing friction?
 - Polishing the floor
 - Squirting oil into the door
 - Waxing the underneath of ice skate.
 - Spreading sand on a wet road.
- What force does the brakes on a bicycle produce to stop the bike?
 - Pitch
 - Gravity
 - Friction
 - Magnetism
- Which of the following box would need the greatest force to move?
 - Box A =50kg.
 - Box B=60kg.
 - Box C=80 kg.
 - Box D= 120kg.

ACTIVITY . 2 Identify the type of force that acts on the different activities below.
Choose the words from the box.

Gravitational force, frictional force, magnetic force, nuclear force, electrical force

- _____ 1. Moving Bullet train
- _____ 2. Flash of lightning
- _____ 3. Nuclear explosion
- _____ 4. Sudden stops of car when driver steps on the brakes
- _____ 5. Rising and falling of Earth's ocean tides
- _____ 6. A refrigerator door stays closed
- _____ 7. A ball rolls off the table and falls
- _____ 8. Orbiting satellites
- _____ 9. A book rests on the table
- _____ 10. A man rolling a heavy drum

ACTIVITY . 3 MATCHING PAIRS: Match the type of frictional forces in column A with its description in Column B.

Column A

- _____ 1. Sliding friction
- _____ 2. Fluid friction
- _____ 3. Rolling friction
- _____ 4. Static friction

Column B

- A. When an object rolls over a surface there is less force needed to move objects.
- B. Occurs when two objects rub against each other.
- C. Friction occurs in stationary objects or objects at rest.
- D. Friction between moving objects and a liquid or between an object moving in the air.

ACTIVITY 4. Describing Kinds of frictional Forces

Write the kind of frictional forces (ROLLING, SLIDING, FLUID, STATIC) acted in the following situation. Write your answer in the blank.

- 1. book sliding across a desk will come to a stop because of the force of _____.
- 2. The book sliding across the desk is an example of _____ friction.
- 3. The type of friction that acts on a falling object is called _____.
- 4. A boat sailing across the sea _____.
- 5. A man pushing a heavy balik-bayan box across the floor _____

ASSESSMENT :

Multiple Choice: Read each item carefully. Select the letter of the best answer.

- 1. Which shows that friction is undesirable?
 - a. Pushing furniture
 - b. Lighting a matchstick
 - c. Walking on a wet floors
 - d. Using the brakes when approaching a stop light
- 2. How can you best reduce friction between the bottom of the feet of furniture and the floor?
 - a. By smoothing the flor
 - b. By the furniture in their place
 - c. By applying lubricants like wax on the floor
 - d. By putting wheels or rollers on the bottom or feet of the furniture.
- 3. Why does a car travel faster in going down than in going up?
 - a. It is moving against gravity
 - b. It is being pushed by the wind
 - c. It is moving towards gravity
 - d. It is being pulled by the weight of the car.
- 4. What force does the brakes of the bicycle produce to stop the bike?
 - a. Pitch
 - b. Gravity
 - c. Friction
 - d. Magnetism
- 5. A boy is playing with a toy sledge. In which surface will it travel fastest?
 - a. The carpet
 - b. The rough floor
 - c. The wet floor
 - d. The polished flo

Learning Activity Worksheet Q3 Science 6 –Week 2

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Activity 1: Fill in the blanks: Use the words in the box to complete the statement.

GRAVITY	LESSER	HIGHER	CENTER
	INCREASES	LESS	

1. All objects fall toward the _____
2. All objects are attracted to each other because of _____.
3. The farther you are from the Earth, the _____ your weight.
4. The gravity between two objects decreases as the distance between them _____.
5. The more distant the body from Earth, the _____ gravitational force of attraction.

Activity 2: Answer the following questions.

1. How does friction affect a flat sheet of paper falling through air?

2. On which surface your shoes or sandals wear out faster ___ on a smooth surface or on a rough surface? Why?

3. Does a friction affect the motion of an object? Why?

Activity 3: Multiple choice: Read each item carefully. Circle the letter of the correct answer.

1. Which of the following statement is true?
 - a. Friction makes an object slide
 - b. Gravity pushes an object upward
 - c. Force is needed to stop an object
 - d. An object in motion will remain in motion
2. Why does a car travel faster in going down than in going up?
 - a. It is moving against gravity
 - b. It is being pushed against by the wind
 - c. It is moving toward gravity
 - d. It is being pulled by the weight of the car
3. Which of these will feel the biggest gravitational pull on earth?
 - a. a 1000-kg elephant
 - b. a 100-g mouse

