





Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 **Newton's law of universal gravitation** states that any two objects exert a gravitational force on each other. **What does the strength of the gravitational force between two objects depend upon?**




**A** the color of the objects  
**B** the chemical make-up of the objects  
**C** the mass of the objects and the distance between them  
**D** the size and shape of the objects

2 If you drop an object, it will **fall directly** to the ground because of \_\_\_\_\_.




**A** work  
**B** gravity  
**C** inertia  
**D** friction

3 Which of the following is defined as **the ability to move an object?**



**A** gravity  
**B** friction  
**C** work  
**D** force

4 Which is an example of **work** being done?




**A** person moving a box  
**B** person trying to move a box  
**C** person sitting on a box




## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet


7 **A** a pulley  
**B** a wheel and axle  
**C** a wedge  
**D** a wedge



**B** a wedge  
**C** a lever  
**D** a wheel and axle

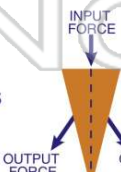


9 What object, found on many playgrounds, is a **simple machine**?



**A** A slide is a pulley.  
**B** Monkey bars are wheel and axles.  
**C** A seesaw is a lever.  
**D** A swing is an inclined plane.

10 What is one thing a **wedge** is often used for?



**A** to raise flags  
**B** to move lighter objects  
**C** to lift heavy objects  
**D** to split or cut objects



## ANSWER KEY

**Newton's law of universal gravitation** states that any two objects exert a gravitational force on each other. **What does the strength of the gravitational force between two objects depend upon?**



- A** the color of the objects
- B** the chemical make-up of the objects
- C** the mass of the objects and the distance between them
- D** the size and shape of the objects

(C)

If you drop an object, it will **fall directly** to the ground because of \_\_\_\_\_.

- A** work
- B** gravity
- C** inertia
- D** friction



(b)

Which of the following is defined as **the ability to move an object**?

- A** gravity
- B** friction
- C** work
- D** force



(C)

Which is an example of **work** being done?

- A** person moving a box
- B** person trying to move a box
- C** person sitting on a box
- D** person standing near a box



(a)



## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

- C** a wheel and axle
- D** a wedge



- C** a lever
- D** a wheel and axle



What object, found on many **playgrounds**, is a **simple machine**?

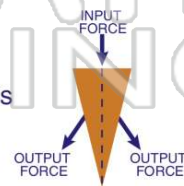
- A** A slide is a pulley.
- B** Monkey bars are wheel and axles.
- C** A seesaw is a lever.
- D** A swing is an inclined plane.



(C)

What is one thing a **wedge** is often used for?

- A** to raise flags
- B** to move lighter objects
- C** to lift heavy objects
- D** to split or cut objects



(d)