

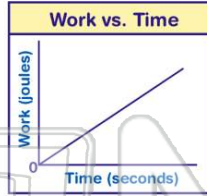


Name _____ Class _____ Date _____

1 The graph below represents the relationship between the **work** done by a student running up a flight of stairs and the **time** of ascent.

What does the **slope** of this graph represent?

- A impulse
- B momentum
- C speed
- D power



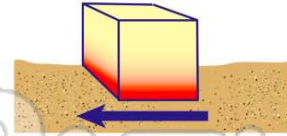
3 Two weightlifters, one 1.5 meters tall and one 2.0 meters tall, raise identical **50-kilogram** masses above their heads. Compared to the work done by the weightlifter who is **1.5 meters tall**, the **work done by the weightlifter who is 2.0 meters tall** is

- A less
- B more
- C the same
- D twice as much



2 The **work done** in moving a block across a rough surface and the **heat energy gained** by the block can both be **measured** in

- A watts
- B degrees
- C newtons
- D joules



4 The **energy of a photon** is **inversely proportional** to its

- A wavelength
- B speed
- C frequency
- D phase

5



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7

- C *cb*
- C *cdb*
- D *cdu*

- B wavelength
- C period
- D amplitude



9

Which **form(s) of energy** can be **transmitted** through a **vacuum**?

- A light, only
- B sound, only
- C both light and sound
- D neither light nor sound

10

Which quantity is equivalent to the **product** of the **absolute index of refraction of water** and the **speed of light in water**?

- A wavelength of light in a vacuum
- B frequency of light in water
- C sine of the angle of incidence
- D speed of light in a vacuum

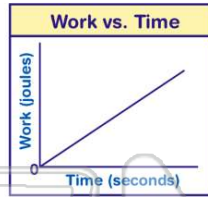


ANSWER KEY

The graph below represents the relationship between the **work** done by a student running up a flight of stairs and the **time** of ascent.

What does the **slope** of this graph represent?

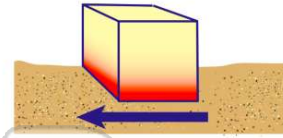
- A impulse
- B momentum
- C speed
- D power



(d)

The **work done** in moving a block across a rough surface and the **heat energy gained** by the block can both be **measured** in

- A watts
- B degrees
- C newtons
- D joules



(d)

Two weightlifters, one 1.5 meters tall and one 2.0 meters tall, raise identical **50-kilogram** masses above their heads. Compared to the work done by the weightlifter who is **1.5 meters tall**, the **work done by the weightlifter who is 2.0 meters tall** is

- A less
- B greater
- C



(b)

The **energy** of a photon is **inversely proportional** to its

- A wavelength
- B speed
- C frequency
- D phase

(a)



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D *cd*

D amplitude



Which **form(s) of energy** can be transmitted through a **vacuum**?

- A light, only
- B sound, only
- C both light and sound
- D neither light nor sound

(a)

Which quantity is equivalent to the **product** of the **absolute index of refraction of water** and the **speed of light in water**?

- A wavelength of light in a vacuum
- B frequency of light in water
- C sine of the angle of incidence
- D speed of light in a vacuum

(d)