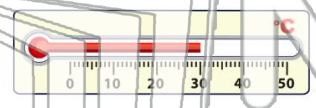
The Science of Physics

Phys Sci

Name_____ Class_____ Date_____

1 What is the **total amount of energy** needed to **change the temperature** of 0.20 kilogram of lead from 20°C to 30°C?

A 0.26 kJ
B 0.65 kJ
C 0.84 kJ
D 1.3 kJ



2 The total effect of all the processes that occur in the universe is an **increase** in

A entropy
B temperature
C order
D energy

3 The **conductivity** of a material is equivalent to

A its resistivity

4 In a nuclear reactor, which substance can be used as **both** the **moderator** and the **coolant**?

7 **A** a strong force that acts over a short range
B a strong force that acts over a long range
C a weak force that acts over a short range
D a weak force that acts over a long range

A N•m
B J/s
C J•s
D kg•m/s

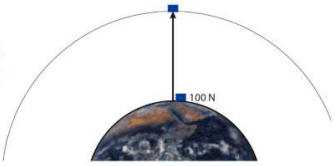
9 The diagram below shows a worker using a rope to pull a cart.

The worker's **pull** on the handle of the cart can best be described as a **force** having

A magnitude, only
B direction, only
C both magnitude and direction
D neither magnitude nor direction

10 An object weighs 100 **newtons** on Earth's surface. When it is moved to a point one Earth radius **above** Earth's surface, it will weigh

A 25.0 N
B 50.0 N
C 100 N
D 400 N

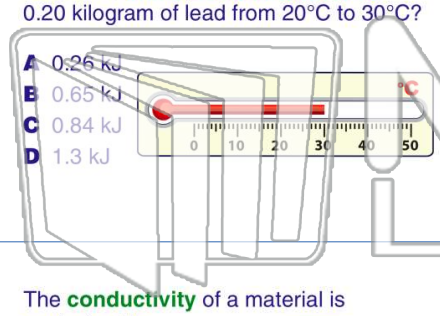


The Science of Physics

Phys Sci

Name_____ Class_____ Date_____

1 What is the **total amount of energy** needed to **change the temperature** of 0.20 kilogram of lead from 20°C to 30°C?



A 0.26 kJ
B 0.65 kJ
C 0.84 kJ
D 1.3 kJ

A

2 The total effect of all the processes that occur in the universe is an **increase** in

A entropy
B temperature
C order
D energy

A

3 The **conductivity** of a material is equivalent to

A its resistivity

C

4 In a nuclear reactor, which substance can be used as **both** the **moderator** and the **coolant**?

PREVIEW

Please Sign In or Sign Up to download the printable version of this worksheet

5

D

7

A a strong force that acts over a short range
B a strong force that acts over a long range
C a weak force that acts over a short range
D a weak force that acts over a long range

A

A N•m
B J/s
C J•s
D kg•m/s

D

9 The diagram below shows a worker using a rope to pull a cart.

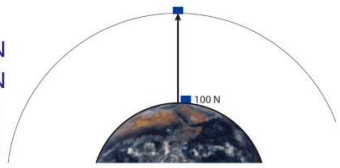
The worker's **pull** on the handle of the cart can best be described as a **force** having

A magnitude, only
B direction, only
C both magnitude and direction
D neither magnitude nor direction

C

10 An object weighs 100 **newtons** on Earth's surface. When it is moved to a point one Earth radius **above** Earth's surface, it will weigh

A 25.0 N
B 50.0 N
C 100 N
D 400 N



A