

#Jenny



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Cool! I'am really happy

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My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

Name _____

Specific Heat capacity

Compound A is an imaginary solid. It has a Specific Heat Capacity of $1000 \text{ J / kg } ^\circ\text{C}$

Section 1

a	A 1 kg block of Compound A is heated, increasing its temperature by 1°C . How much energy has been added to the block?	
b	A 1 kg block of Compound A is heated, increasing its temperature by 10°C . How much energy has been added to the block?	
c	A 1 kg block of Compound A is heated, increasing its energy by 1000 Joules. How much warmer does it get?	
d	A 1 kg block of Compound A is heated, increasing its energy by 3000 Joules. How much warmer does it get?	
e	A 1 kg block of Compound A is cooled, reducing its energy by 1000 Joules. What is the temperature change?	
f	A 1 kg block of Compound A is at 20°C . How much energy is needed to get it to be 30°C ?	
g	A 10 kg block of Compound A is at 20°C . How much energy is needed to get it to be 30°C ?	
h	A 10 kg block of Compound A is at 20°C . How much energy is removed to get it to be 24°C ?	
i	A 1 kg block of Compound A is at 20°C . How much energy is needed to get it to be 24°C ?	

Section 2

Specific Heat Capacity values	
Water	$4200 \text{ J / kg } ^\circ\text{C}$
Copper	$390 \text{ J / kg } ^\circ\text{C}$
Glass	$850 \text{ J / kg } ^\circ\text{C}$

a	Which substance requires the least amount of energy to raise its temperature?	
b	How much energy is needed to increase the temperature of 1kg of water by 10°C ?	
c	How much energy is needed to increase the temperature of 1kg of copper by 10°C ?	
d	A 1 kg block of copper is put in 2 kg of water. How much energy is needed to increase the temperature by 10°C ?	
e	A 2 kg block of copper is put in 1 kg of water. How much energy is needed to increase the temperature by 10°C ?	
f	A 1 kg block of copper is put in 1 kg of water, inside a glass jar of 1kg. How much energy is needed to increase the temperature by 10°C ?	
g	A 1 kg block of copper is put in 1 kg of water, inside a glass jar of 0.5kg. How much energy is needed to increase the temperature by 10°C ?	
h	A 1 kg block of copper is put in 1 kg of water, inside a copper beaker of 1kg. How much energy is needed to increase the temperature by 10°C ?	
i	1 kg of water is in a 2kg copper beaker. How much energy is needed to increase the temperature by 5°C ?	

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Specific Heat Capacity Problems Worksheet Answers