

L. N. Coakley Science Department
Specific Heat Capacity Worksheet.

Name: _____ Date: _____ Grade: _____.

Key points to remember:

The specific heat capacity of a substance is the heat required to produce a 1 °C rise in 1 kg.

The heat received or given out = mass x specific heat capacity x temp. change

$$Q = mc\Delta T$$

$$c = \frac{Q}{m\Delta T}$$

1. How much heat is need it to raise the temperature by 10 °C of 5 kg of a substance of specific heat capacity 300 J/(kg °C)?

Known:

Formula:

Substitution:

$\Delta T =$

$m =$

$c =$

Unknown:

The amount of heat need it is _____ J.

2. The same amount of heat was given to different masses of three substances A, B and C. The temperature rise in each case is shown in the table. Calculate the specific heat capacity of A, B, and C.

Material	Mass (kg)	Heat given (J)	Temp. rise (°C)
A	1.0	2000	1.0
B	2.0	2000	5.0
C	0.5	2000	4.0

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AW Rasmussen



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