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Problems \u0026
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~~Examples: How to~~

~~Find Heat and~~

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Problems: Heat

and Specific

Heat ~~How to~~

~~calculate~~

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~~Example specific~~

~~heat problems~~

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~~Capacity~~

~~Calculations.~~

~~Easy to Hard.~~

~~$E=mcT$~~

~~Thermodynamics:~~

~~Specific Heat~~

~~Capacity~~

~~Calculations~~

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*Solving specific
heat problems*

*Solving Heat
Capacity and
Specific Heat
Capacity*

*problems - Pure
Physics*

~~Calculations
involving heat
and specific
heat~~ *Heat*

*Capacity and
Specific Heat -*

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Concept,
Examples and
Thermochemistry
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Solving for the
Mass Using the
Specific Heat
Formula
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~~and Latent Heat~~

Specific Heat

Capacity -

Solving for

Joules Specific

Heat - Solving

for the Final

Temperature

Specific Heat

Capacity

Introduction

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\u0026 Practice

Problems Heat

Capacity and

Specific Heat

Specific Heat

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Temperature Heat

Capacity,

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Questions
Specific Heat,
and Calorimetry

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capacity and
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questions

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Capacity,

Enthalpy Fusion,

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~~Problem~~

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Question of the

Day: Specific

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Calculations

Latent Heat of

Fusion and

Vaporization,

Specific Heat

Capacity \u0026

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*Calorimetry -
Physics What Is
The Difference
Between Specific
Heat Capacity,
Heat Capacity,
and Molar Heat
Capacity*

**Calculating the
Specific Heat of
a Hot Piece of
Metal Dropped
into Water**

Specific Heat

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Capacity
Practice

Questions 1.

What are the
units for
specific heat
capacity? 2.

What is the unit
for energy? 3.

How much energy
is needed to

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Capacity

Questions

heat up 1kg of
water by 15°C ?

4. How much
energy would be
needed to raise
the temperature
of a 5kg block
of concrete by
 10°C ? 5. Can you
...

Specific Heat

Capacity

Questions - Miss

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Wise's Physics
Site

The specific
heat capacity of
liquid water is
4.184 J/ g
degree C.

Calculate the
quantity of
energy in Joule
required to heat
2.00 g of water
from 11.6 degree
C to 87.3 degree

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Capacity
Questions
C. View Answer.
The...

Heat Capacity
Questions and
Answers |
Study.com
Calculating
thermal energy
changes. change
in thermal
energy (ΔE_t) is
measured in
joules (J) mass

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(m) is measured
in kilograms

(kg) specific
heat capacity

(c) is measured
in joules per

kilogram per
degree Celsius

($\text{J}/\text{kg}^\circ\text{C}$)

temperature

change ($\Delta\theta$) is

measured in

degrees Celsius

($^\circ\text{C}$)

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Specific heat
capacity -
Energy and
heating - AQA -
GCSE ...

Specific heat
capacity
questions and
equation .

Episode 607:
Specific heat
capacity .

Energy must be

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Questions
supplied (or rejected) to increase (or decrease) the temperature of a material. Here is how to calculate how much. Summary . Discussion: Energy and change of phase. (15 minutes)
Student

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experiment:

Measuring

specific heat

capacities. (40

minutes)

Specific heat

capacity

questions and

equation

Calculating the

Specific Heat

Capacity of

Aluminium -

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Capacity
Questions

WORKED EXAMPLE -
GCSE Physics -
YouTube. In this
example you
calculate the
specific heat
capacity of
aluminium.

Specific Heat
Capacity | GCSE
Physics Online
Specific Heat
Capacity. When a

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substance is heated its temperature will rise (so long as the substance does not change state). The rise in temperature depends on: The substance being heated. The mass of the substance. The thermal energy

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transferred to
the substance.

The specific
heat capacity of
a substance is
the amount of
thermal energy
required to
raise the
temperature of
1kg of that
substance by 1
°C.

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Capacity Questions

Specific Heat
Capacity | AQA
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Revision Notes
Latent heat and
Specific heat
capacity

questions. 1.
How much water
at 50°C is
needed to just
melt 2.2 kg of
ice at 0°C ? 2.
How much water

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Capacity Questions

at 32°C is needed to just melt 1.5 kg of ice at -10°C ? 3. How much steam at 100° is needed to just melt 5 kg of ice at -15°C ? 4. A copper cup holds some cold water at 4°C .

Latent heat and

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Specific heat
capacity

questions.

Try these
questions to
test your
ability to use
the relationship
for specific
heat capacity.

Question. An
electric heater
supplies 13500
joules of heat

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Capacity
Questions

energy to a
metal block of
mass (0.5kg) .

Using the
relationship for
heat gained or
lost by a ...
Specific heat
capacity in
terms of heat
capacity is
conveyed as
Problem 1: A

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Capacity Questions

piece of copper
125g has a heat
capacity of
19687.6J also it
is heated from
150 to 250 0 C
heat. Find out
the specific
heat? Solution:

Given. $m = 125$
gm. $Q =$
19687.6J. $\Delta T =$
 $250 - 150 = 100$ 0
C. $c = 19687.6 / ($

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Capacity
Questions
 $125 \times 100) \quad c =$
 $1.575 \text{ J/g } 0 \text{ C.}$

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examples and
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questions on
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Formula, please
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Specific Heat
Capacity Formula
- Definition,

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Capacity
Questions
Formula And ...

Two page worksheet using Specific Heat Capacity. Questions start easy then become gradually harder. Answers included on separate sheet. Also includes a spreadsheet to show how the

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Capacity
Questions
calculations
have been done.

Specific Heat
Capacity
Worksheet (with
answers) |
Teaching ...
A Level Specific
Heat Capacity
Questions. Q1.
Kinetic theory
of gases,
electricity and

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SHC. 11 marks.

Q2. Graph plotting and interpretation.

10 marks. Q3.

Immersion heater.

A Level Specific Heat Capacity Questions - Cyberphysics Specific heat capacity has

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Capacity
Questions

units of joules per kilogram per degree Celsius ($\text{J/kg } ^\circ\text{C}$) (Note: Different substances have different specific heat capacities) From the definition of specific heat capacity, it follows that if you have more

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Capacity Questions

than 1 kg of a material, you will need more thermal energy. Likewise, if you want to raise its temperature by more than 1 °C, you will also need to add more thermal energy.

Specific Heat

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Revision Notes

This covers
specific heat
capacity for P1
AQA. Lots of
practice for
using the SHC
equation. This
covers specific
heat capacity
for P1 AQA. Lots
of practice for

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Capacity
Questions
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equation ...

Statistics for A
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Gravitational,
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mixed questions.
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Capacity
Powerpoint and
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The specific
heat capacity of
water is 4200
 $\text{J/kg } ^\circ\text{C}$. 2. An
iron has an
aluminium plate
with a mass of
 1.5kg . Calculate

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Capacity
Questions

the thermal energy stored in the plate when the temperature rises from 20°C to 200°C .

Specific Heat
Capacity
(examples,
solutions,
videos, notes)
GCSE questions
using the

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Capacity Questions

specific heat capacity of water. Students use the specific heat capacity of water to work out the energy transferred in some everyday contexts.

Thinking deeper.
The Southern Hemisphere has more area

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Questions
covered by ocean
that the

Northern
Hemisphere.

Suggest what
affect this has
on the climate
of the Southern
Hemisphere.

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In this video,
we look at
specific heat
capacity and how
we use this to
calcu...

GCSE Science

Page 39/85

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"Specific Heat

Capacity ...

Specific Heat

Capacity Exam

Question Finding
the specific

heat capacity of
a block A

student is

carrying out an
investigation to
find the

specific heat

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Capacity
Questions
capacity of an
unknown block.

He measures the
energy supplied
to it as he
heats it.

Specific Heat
Capacity Exam
Question - Miss
Wise's Physics

...

Specific Heat
Capacity is the

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amount of energy
(in Joules)

needed to
increase the
temperature of 1
kg of a

substance by 1
degree Celsius.

The higher the
value the more
energy that
needs to put in.

Using this
information, it

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Capacity Questions

is possible to calculate how much energy needs to be put into a substance to increase its temperature by a specific amount.

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practice
questions~~

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Questions
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Capacity

Problems \u0026amp;

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Tutorial -

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~~Calorimetry~~

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~~Specific Heat~~

~~Capacity~~

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Capacity Problems: Heat Questions and Specific

Heat ~~How to~~
~~calculate~~
~~specific heat:~~
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Specific Heat -
Solving for the
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*Mass Using the
Specific Heat
Formula*

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~~Crash Course~~

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~~Specific Heat~~

~~and Latent Heat~~

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Solving for

Joules Specific

Heat - Solving

for the Final

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Introduction

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Lecture Review

\u0026amp; Practice

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Capacity and

Specific Heat

Specific Heat

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Temperature Heat

Capacity,

Specific Heat,

and Calorimetry

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latent heat

practice

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Enthalpy Fusion,

Chemistry

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Vaporization,
Specific Heat
Capacity \u0026amp;
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Metal Dropped
into Water**

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Capacity

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What are the
units for
specific heat
capacity? 2.

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Questions

What is the unit for energy? 3.

How much energy is needed to heat up 1kg of water by 15°C ?

4. How much energy would be needed to raise the temperature of a 5kg block of concrete by 10°C ? 5. Can you

...

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The specific
heat capacity of
liquid water is
 4.184 J/g
degree C.

Calculate the
quantity of
energy in Joule

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required to heat
2.00 g of water
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C to 87.3 degree
C. View Answer.
The...

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thermal energy
changes. change

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Capacity
Questions

in thermal energy (ΔEt) is measured in joules (J) mass (m) is measured in kilograms (kg) specific heat capacity (c) is measured in joules per kilogram per degree Celsius ($J/kg^{\circ}C$) temperature

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Capacity
Questions

change ($\Delta\theta$) is
measured in
degrees Celsius
($^{\circ}\text{C}$)

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capacity -
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Specific heat
capacity .

Energy must be
supplied (or
rejected) to
increase (or
decrease) the
temperature of a
material. Here
is how to
calculate how
much. Summary .

Discussion:

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Capacity
Questions
Energy and
change of phase.
(15 minutes)

Student
experiment:
Measuring
specific heat
capacities. (40
minutes)

Specific heat
capacity
questions and
equation

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Calculating the
Specific Heat

Capacity of
Aluminium -

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example you

calculate the

specific heat

capacity of

aluminium.

Specific Heat

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Specific Heat Capacity. When a substance is heated its temperature will rise (so long as the substance does not change state). The rise in temperature depends on: The substance being

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heated. The mass of the substance. The thermal energy transferred to the substance. The specific heat capacity of a substance in the amount of thermal energy required to raise the temperature of

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1kg of that
substance by 1
°C.

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Capacity | AQA
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capacity
questions. 1.

How much water
at 50°C is

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Questions

needed to just melt 2.2 kg of ice at 0°C ? 2. How much water at 32°C is needed to just melt 1.5 kg of ice at -10°C ? 3. How much steam at 100° is needed to just melt 5 kg of ice at -15°C ? 4. A copper cup holds

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Capacity
Questions
some cold water
at 4°C .

Latent heat and
Specific heat
capacity
questions.

Try these
questions to
test your
ability to use
the relationship
for specific
heat capacity.

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Question. An electric heater supplies 13500 joules of heat energy to a metal block of mass (0.5kg) .

Using the relationship for heat gained or lost by a ...
Specific heat capacity in

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terms of heat
capacity is

conveyed as

Problem 1: A

piece of copper

125g has a heat

capacity of

19687.6J also it

is heated from

150 to 250 °C

heat. Find out

the specific

heat? Solution:

Given. $m = 125$

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$$\begin{aligned} \text{gm. } Q &= \\ 19687.6\text{J. } \Delta T &= \\ 250-150 &= 100 \text{ } ^\circ\text{C.} \\ c &= 19687.6 / (\\ 125 \times 100) & \\ c &= \\ 1.575 \text{ J/g } ^\circ\text{C.} \end{aligned}$$

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Formula And ...

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Questions start
easy then become
gradually
harder. Answers
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separate sheet.
Also includes a
spreadsheet to
show how the
calculations
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Questions. Q1.

Kinetic theory
of gases,
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SHC. 11 marks.

Q2. Graph
plotting and
interpretation.
10 marks. Q3.

Immersion
heater.

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Questions -

Cyberphysics

Specific heat

capacity has

units of joules

per kilogram per

degree Celsius

($\text{J/kg } ^\circ\text{C}$) (Note:

Different

substances have

different

specific heat

capacities) From

the definition

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Capacity Questions

of specific heat capacity, it follows that if you have more than 1 kg of a material, you will need more thermal energy. Likewise, if you want to raise its temperature by more than 1 °C, you will also need to add

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more thermal
energy

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water is 4200
J/kg °C. 2. An

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iron has an aluminium plate with a mass of 1.5kg. Calculate the thermal energy stored in the plate when the temperature rises from 20°C to 200°C .

Specific Heat
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GCSE questions

using the

specific heat

capacity of

water. Students

use the specific

heat capacity of

water to work

out the energy

transferred in

some everyday

contexts.

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Thinking deeper.
The Southern Hemisphere has more area covered by ocean than the Northern Hemisphere. Suggest what affect this has on the climate of the Southern Hemisphere.

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we look at

specific heat

capacity and how

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"Specific Heat
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Capacity Exam
Question Finding
the specific
heat capacity of
a block A
student is

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Capacity
Questions

carrying out an investigation to find the specific heat capacity of an unknown block. He measures the energy supplied to it as he heats it.

Specific Heat
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Wise's Physics

Specific Heat Capacity is the amount of energy (in Joules) needed to increase the temperature of 1 kg of a substance by 1 degree Celsius. The higher the value the more

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Capacity Questions

energy that needs to put in. Using this information, it is possible to calculate how much energy needs to be out into a substance to increase its temperature by a specific amount.