Answer on Question #51923-Physics-Field Theory

The amount of heat necessary to change an object's temperature 1 kg 1°C is called

fusion.

temperature.

radiant heat.

specific heat.

Solution

Specific heat is the amount of heat (energy) required to raise the temperature of an unit mass of a certain substance by an unit temperature interval:

$$C = \frac{\Delta Q}{m\Delta T}.$$

In our case $m = 1\ \text{kg}$ and $\Delta T = 1°\text{C}$.

Answer: specific heat.