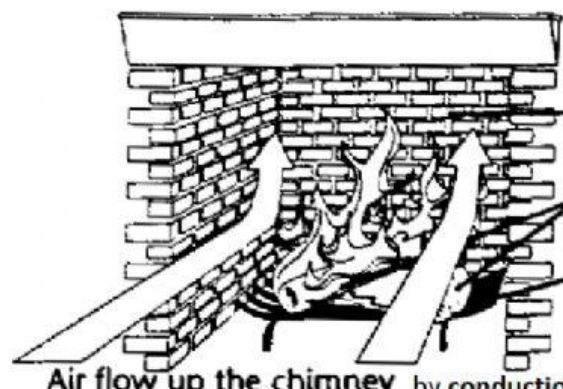


Look at the picture and select the correct choices.



Bricks are heated by conduction, convection, radiation.
Through direct contact, currents, electromagnetic waves.

Logs are heated by conduction, convection, radiation.
Through direct contact, currents, electromagnetic waves.

Metal grate is heated by conduction, convection, radiation.
Through direct contact, currents, electromagnetic waves.

Air flow up the chimney by conduction, convection, radiation.
Through direct contact, currents, electromagnetic waves.

29. Substance A has a specific heat of $385 \text{ J}/(\text{kg}\cdot\text{K})$. How much energy would you have to transfer to 10 kg of the substance to raise its temperature by 10 K?

Show your work.

$$Q = m \cdot C \cdot \Delta T$$

What does m equal ____

What does C equal ____

What does ΔT equal ____

Plug into the formula and multiply.

Q is equal to ____ joules