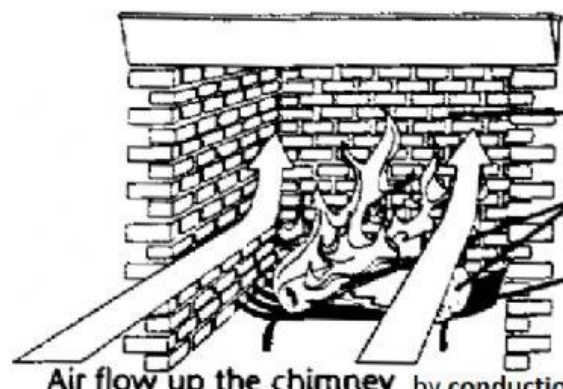


Look at the picture and select the correct choices.



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 $385 \text{ J/(kg}\cdot\text{K)}$. 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