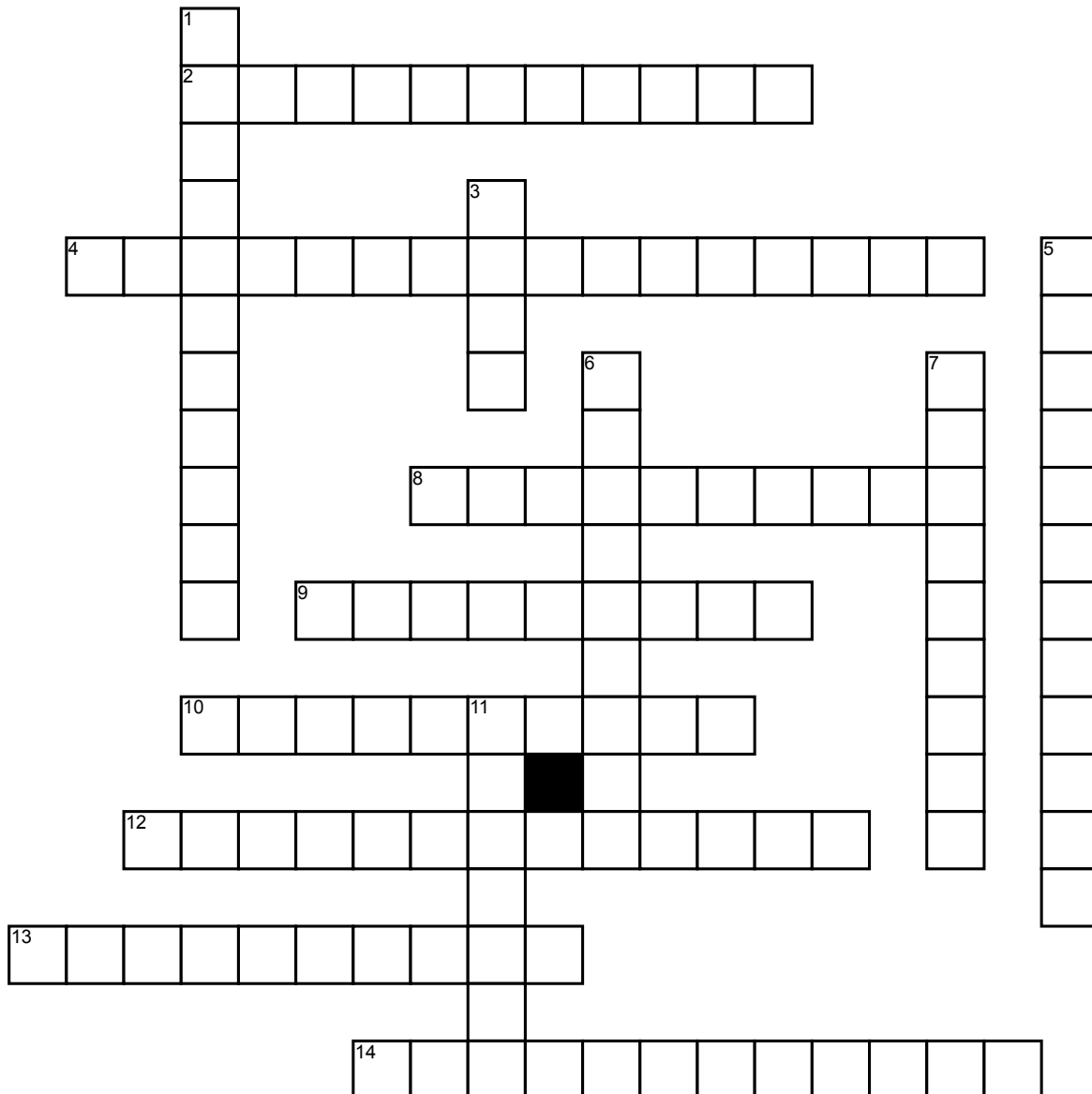


# Heat/Thermal Energy



## Across

2. When temperatures eventually even out  
 4. Expansion of matter when it is heated  
 8. Transfer of heat by touch  
 9. A material in which heat/energy can not move readily  
 10. Movement of energy through a fluid  
 12. Total potential and kinetic energy of the particles in an object

13. 32 degrees water freezes  
 14. Temperature at which no other energy can be removed from matter

## Down

1. Measure of average kinetic energy of the particles of matter  
 3. Thermal energy that is transferred from matter at a high temperature to matter at a lower temperature

5. Amount of energy required to raise the temperature of 1 kilogram of a material one kelvin  
 6. Transfer of energy through empty space  
 7. A material in which heat/energy can move readily  
 11. How temperature is measured in metric system