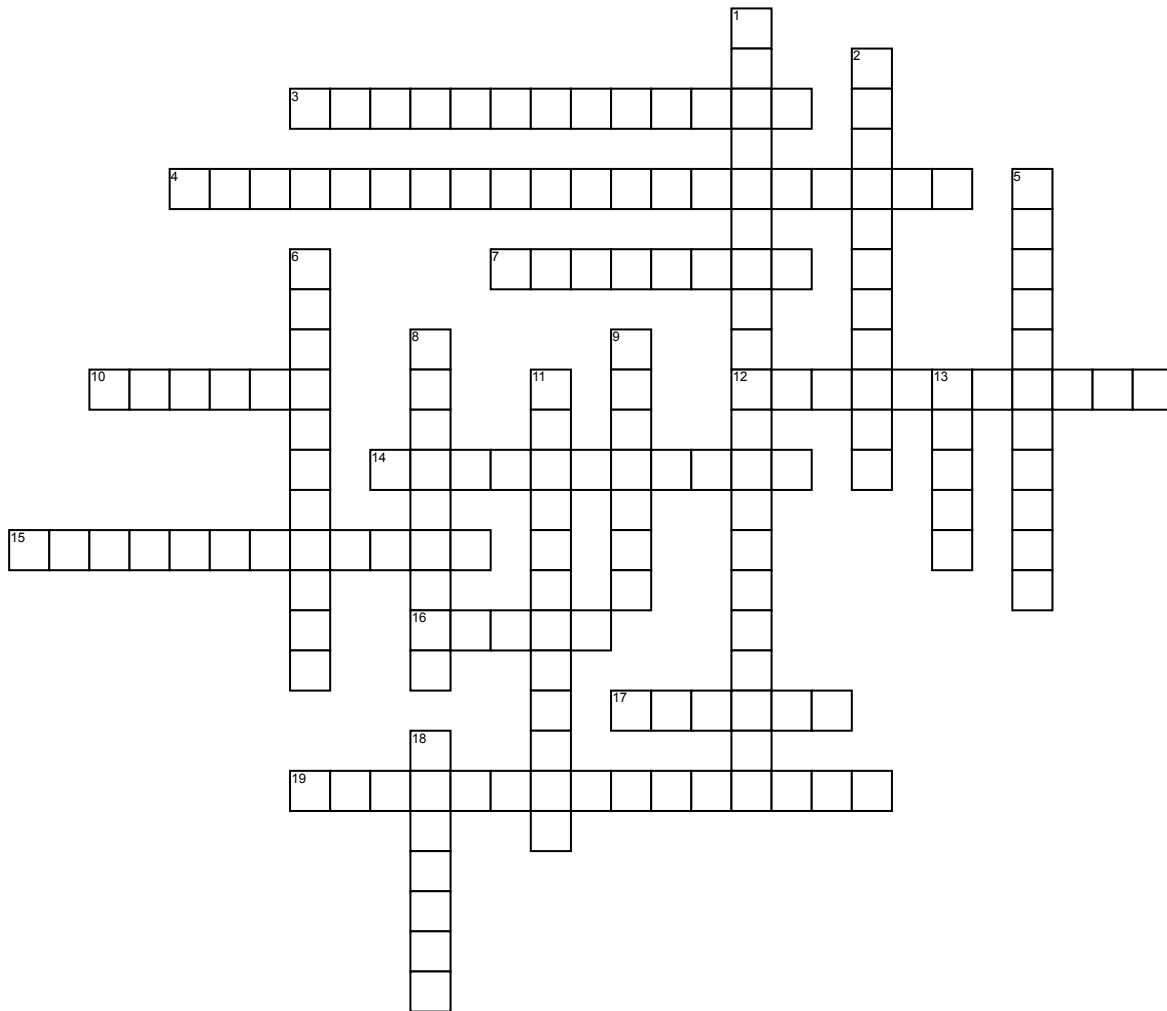


Measurement of temperature



Across

3. 3 apparatus to use thermal expansion to determine changes in temperature: Bimetallic strips, thermometers and

4. A device that automatically regulates temperature - when temperature is above a certain point, the strip bends, separating the electrical contacts in a circuit- no electricity supplied to heating unit till temperature drops again and strips straighten to connect the circuit again.

7. Sensitivity of thermometer depends on: expansion of liquid and of inner glass tube.

10. Different liquids expand by different amounts at different temperatures - rising at different amounts with each degree difference in temperature. Thus, they are not quite

12. Temperature scale must be used to determine a change in temperature

14. A measure of the average kinetic energy of the particles in a substance

15. Name for -273.15 degree Celsius (the temperature where gas has a pressure of 0)

16. A thermometer with a glass bulb will respond more slowly to temperature changes

17. Range describes the to the highest temperature that each thermometer can measure.

19. Apparatus made up of two different metals joined together - these metals each expand by a different amount when heated, which causes the apparatus to bend

Down

1. When junctions are at different temperatures, different voltages are produced.

2. Temperature can be converted from Kelvin to degree Celsius by 273.15

5. refers to the ability of a thermometer to determine small temperature changes.

6. A thermocouple is a very sensitive

8. To choose the most suitable thermometer in a situation, the following must be taken in to account: sensitivity, responsiveness, range and

9. When the temperature increases, the liquid in the thermometer and is forced up an inner glass tube

11. Device that consists of 2 pieces of wire, made of different metals, that are joined together at junctions, that gives different voltages when junctions are at different temperatures

13. Thermocouple thermometers are quick respond to temperature changes and have a wide (-200 to 1 100 degree Celsius)

18. Thermometer bulb is filled with a liquid such as alcohol or