



## Exercise 26

Date:

1. Give the definition of heat.

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2. Give the definition of temperature.

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3. What is the unit in which the following is measured?

3.1 Heat

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3.2 Temperature

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4. Name the three types of thermometers commonly used.

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5. Complete the following table to indicate the benefits and disadvantages of each type of thermometer:

Type of thermometer	Benefits	Disadvantages
Alcohol		
Mercury		
Thermoelectric		





6. Name three different uses of thermometers in technology.

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7. Which temperature scale is used for thermodynamic purposes?

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8. Complete the following table by converting the temperature from Celsius to Kelvin or vice versa:

Temperature in °C	Temperature in K
56	
	0
-136	
	158
254	
	367
0	
	221

### Summary

- Heat is energy that is transferred.
- Heat is measured in joule (J).
- The SI unit of temperature is kelvin (K).
- Temperature is the measure of the average kinetic energy of the particles a substance consists of.  $E_K = \frac{1}{2}mv^2$

