

Middle School Science

Name:

Date:

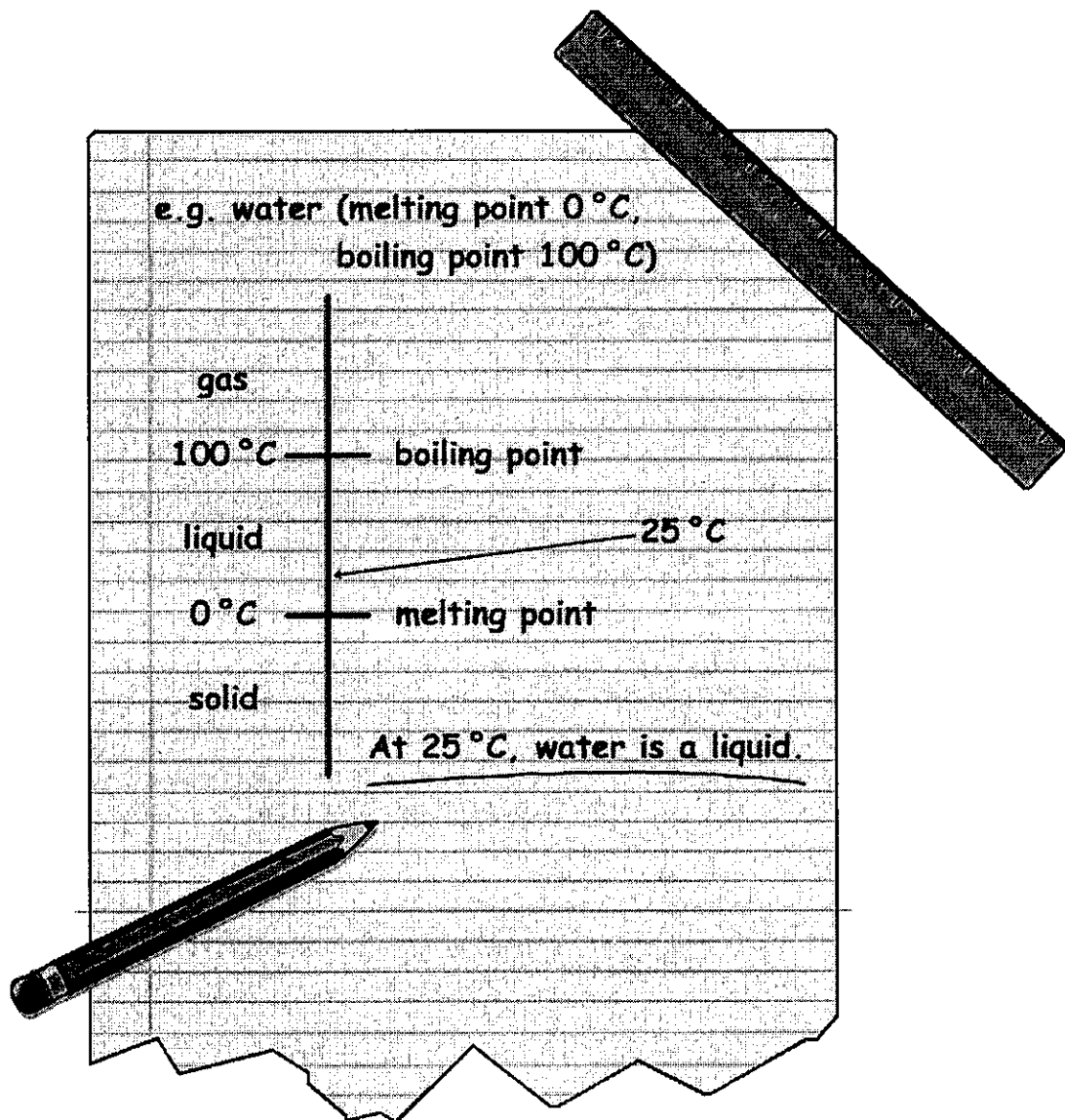
Changes of Matter Worksheet

Melting point and boiling point

Read the following instructions, and then fill in the table on the next page.

How to figure out what state a substance is at any given temperature:

1. Draw a scale.
2. Write 'solid' below the melting point, 'liquid' between the melting and boiling points, and 'gas' above the boiling point.
3. Write down the melting point ($^{\circ}\text{C}$) and boiling point ($^{\circ}\text{C}$) of the substance you are looking at.
4. Find the temperature you are looking for on the scale – it should now be clear whether the substance is a solid, a liquid or a gas.



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| Substance | Melting point (°C) | Boiling point (°C) | State at 25 °C | State at 1000 °C | State at -50 °C |
|-------------------|--------------------|--------------------|----------------|------------------|-----------------|
| water | 0 | 100 | | | |
| methane | -182 | -162 | | | |
| oxygen | -218 | -183 | | | |
| ethanol | -117 | 79 | | | |
| ethanoic acid | 16.6 | 118 | | | |
| sodium chloride | 801 | 1467 | | | |
| xenon | -112 | -108 | | | |
| iron | 1535 | 2861 | | | |
| gold | 1063 | 2856 | | | |
| antimony | 630 | 1587 | | | |
| mercury | -39 | 357 | | | |
| yttrium | 1526 | 3336 | | | |
| ammonia | -77 | -33 | | | |
| hydrochloric acid | -27 | 48 | | | |
| osmium | 3033 | 5012 | | | |