Name: _____

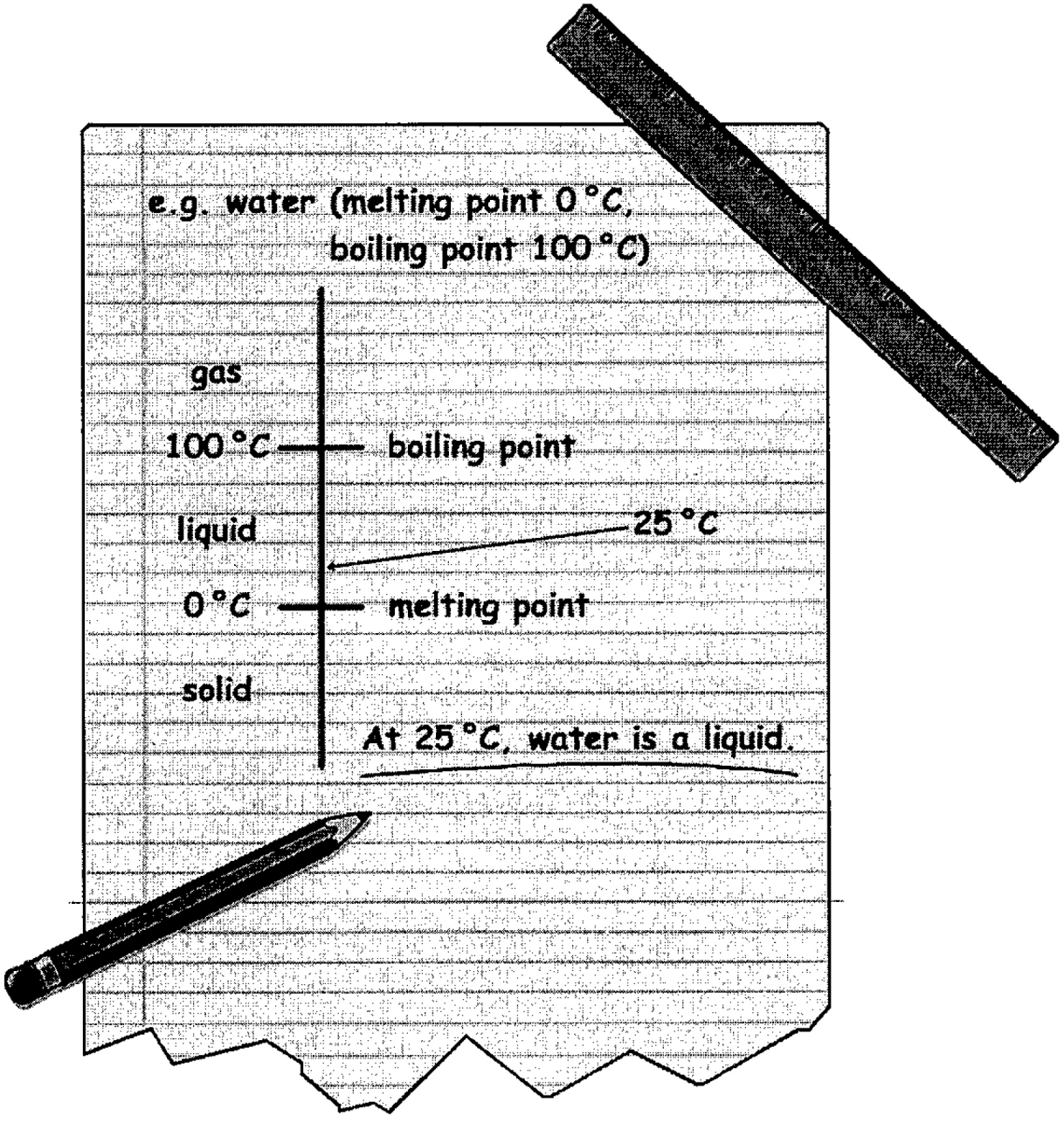
Temperature and Phases of Matter

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 (°C) and boiling point (°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.



Temperature and Phases of Matter

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			