

Middle School Science

Name:

Date:

Changes of Matter Worksheet

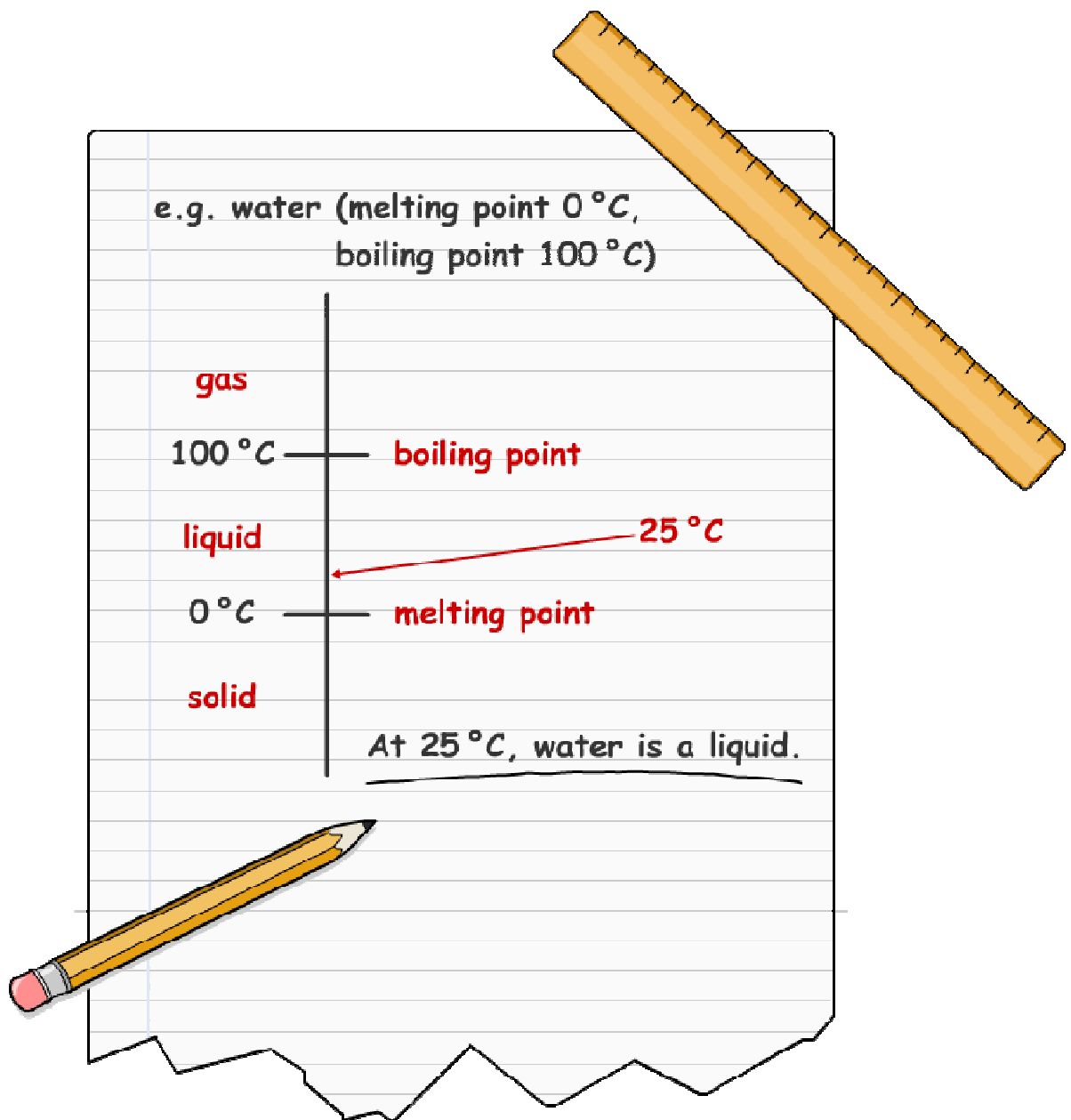
This worksheet accompanies slide 6 of *Changes of Matter.ppt*

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			