

Prospectus Novus School
Natural Sciences
Grade 7V/W



Activity 2.1 (Matter and materials: Physical properties of materials)

1. Define the following terms:
 - a. Physical property
 - b. Strength
 - c. Flexibility
 - d. Boiling point
 - e. Melting point
 - f. Electrical conductivity
 - g. Heat conductivity
 - h. Suitability
 - i. Investigate
 - j. Compare
2. Explain the different properties of water (boiling point and melting point)
3. Copy and complete the table. Use the information on page 58 – 60.

MATERIAL	MELTING POINT (°C)	BOILING POINT (°C)
Ethanol	-258	
Paraffin	-20	150
Water		
Lead		1750
Salt		1465
Silver	962	2162
Gold	1063	2660
Copper		
Iron	1535	2700

4. Copy and complete the statements by filling in the missing word.
 - a. Materials with _____ melting points are liquids, and materials with _____ melting points are solids
 - b. Paraffin has a _____ melting point than water, but a _____ boiling point.

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Activity 2.2 (Practical activity) (Investigate what happens when water boils)

AIM: In this activity you will record the increase in temperature as water heats up and measure the boiling point of water

MATERIALS:

Heat source thermometer 250ml water 250ml juice

METHOD

- Step 1** Put 250ml of water in a beaker
Step 2 Heat the water
Step 3 Take the temperature reading every three minutes until the temperature is constant for three readings
Step 4 Repeat the experiment with juice

RESULTS

1. For the water, record time intervals and temperature readings in a table like the one below. Your table need more rows.

TIME (MINUTES)	TEMPERATURE (°C)
0	25
3	

2. Use your measurements to draw a line graph.

QUESTIONS

1. Describe the pattern of temperature change in your graph
2. Give the term for the highest constant temperature the water reaches
3. Explain what happens at this temperature
4. Which liquid had the highest boiling point. Water or juice?