

Chemistry - Key Stage 3

Particles - Lesson 14

# Solubility Practical

Mrs Wolstenholme



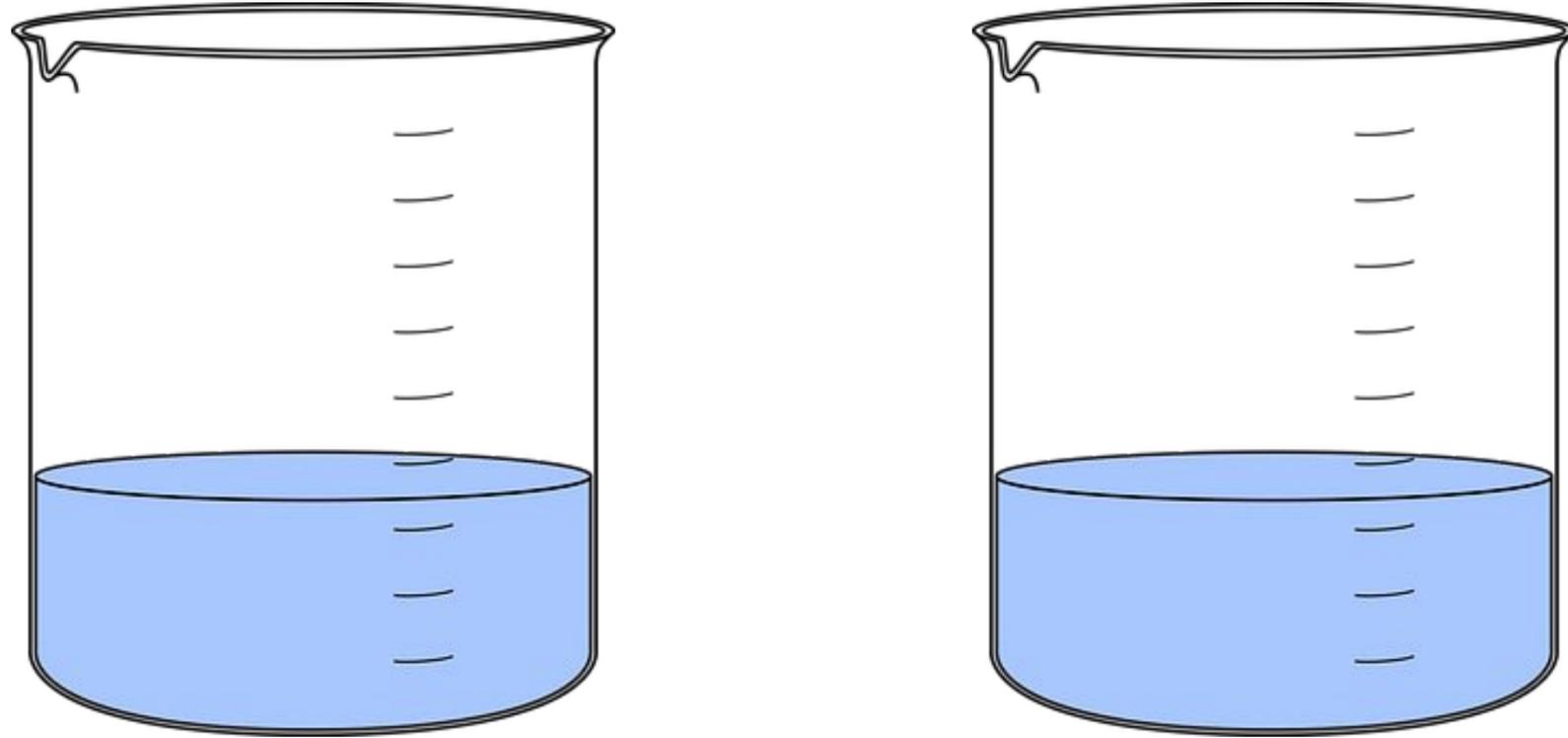
**1. What is solubility?**

**2. How does increasing temperature affect solubility?**



How does the temperature of solvent affect the mass of solid that dissolves?

**Task:** Identify the independent, dependent and control variables.



Mass of solid that dissolves

Temperature of solvent

Volume of solvent

Time stirring

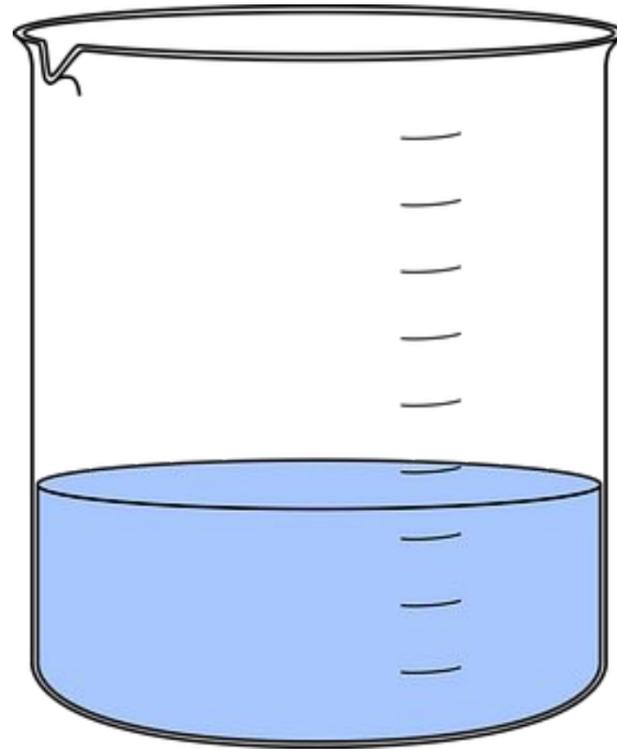
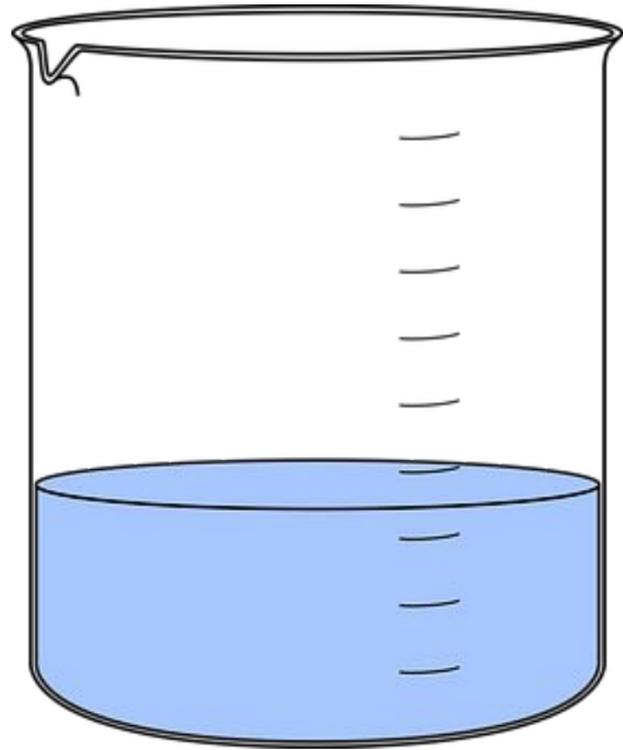
Solid substance

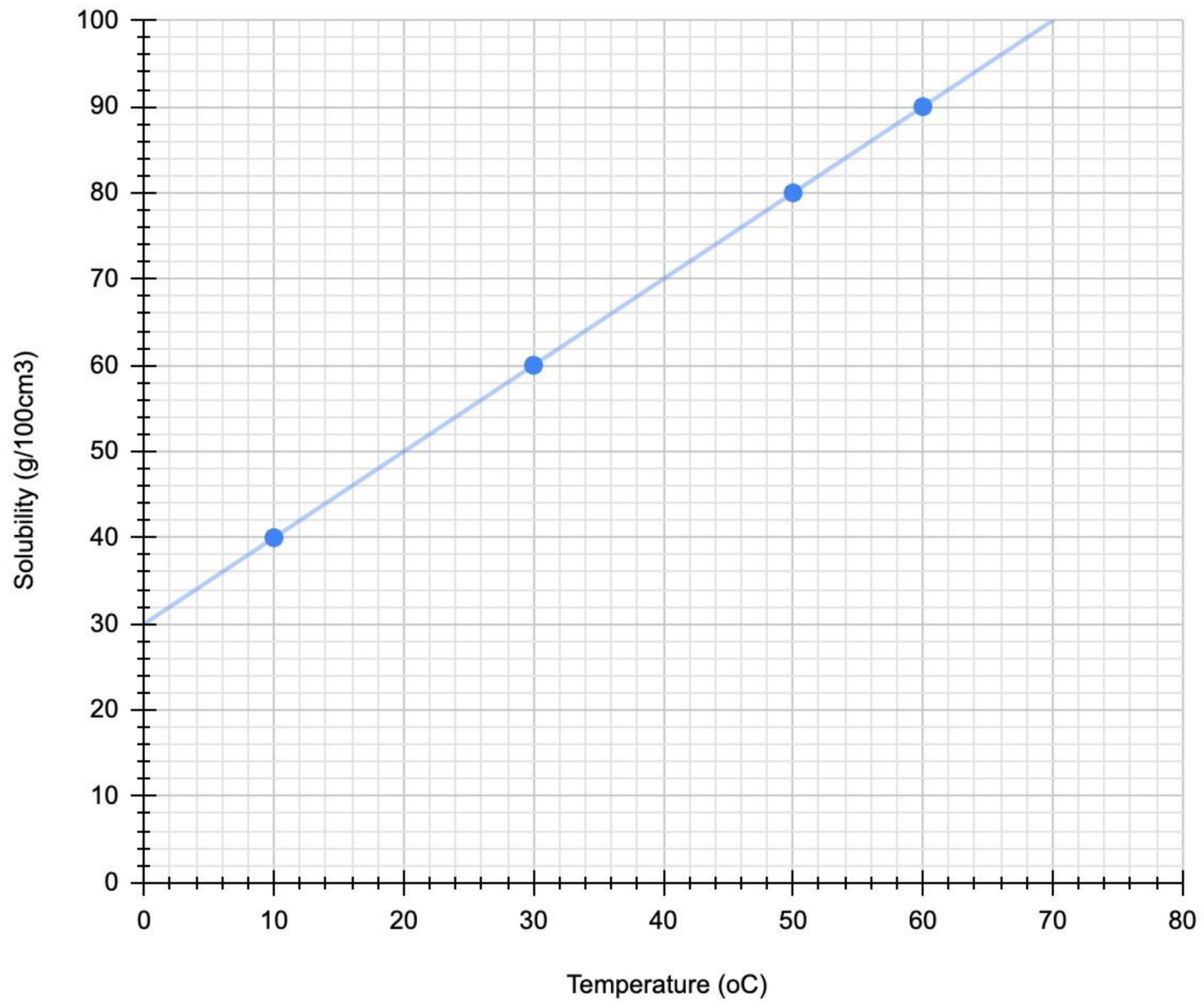
Solvent



How does the solid substance affect the mass of solid that dissolves?

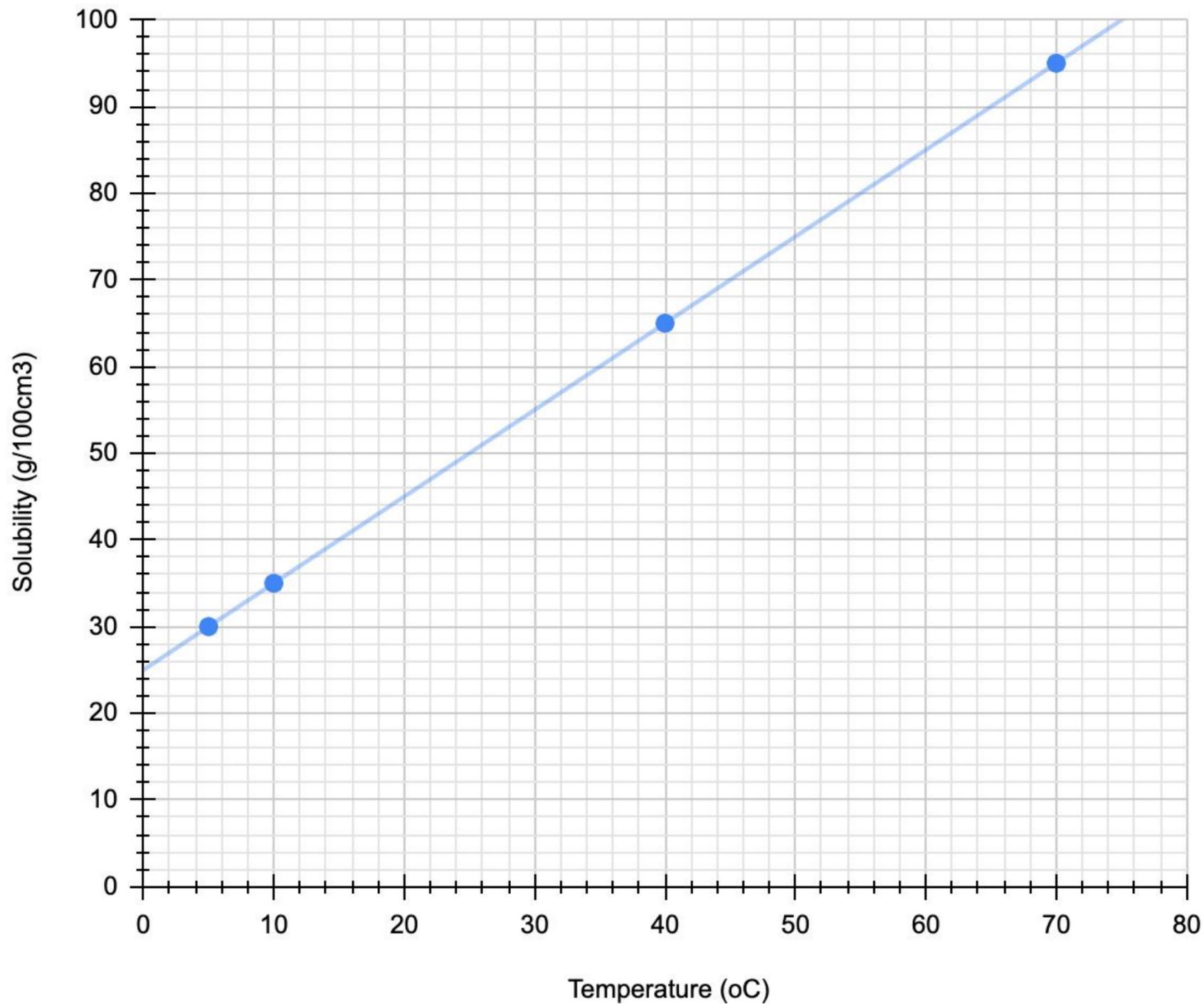
**Task:** Write down all the variables in this experiment





Temperature (°C)	Solubility (g/cm <sup>3</sup> )
10	40
<b>20</b>	<b>?</b>
30	60
<b>40</b>	<b>?</b>
50	80
60	90





1. What is the solubility at:
  - a. 65 °C?
  - b. 30 °C?
  - c. 15 °C?
2. At what temperature is the solubility:
  - a. 60 g/100cm<sup>3</sup>?
  - b. 85 g/100cm<sup>3</sup>?
  - c. 75 g/100cm<sup>3</sup>?

