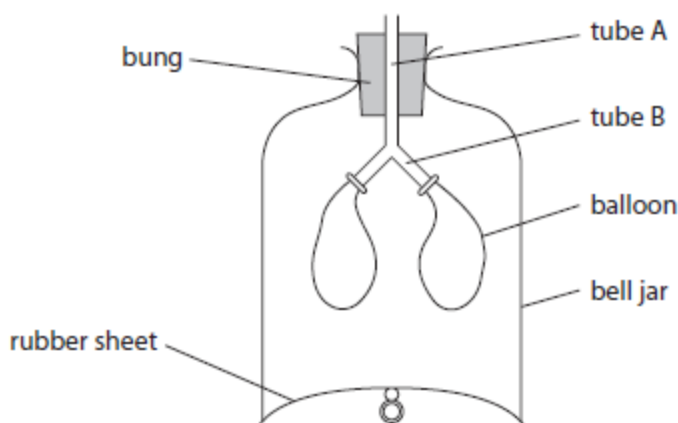


ACTIVITY 5 – command words

Biology

- 8 A teacher uses this bell jar model of the thorax to show the process of ventilation.



- (b) Evaluate whether the bell jar model can completely demonstrate the process of ventilation. (4)

Chemistry

- (f) The overall equation for the formation of hydrated copper(II) sulfate crystals from copper(II) oxide is



- (i) In an experiment, a student completely reacts 9.54 g copper(II) oxide.

Show that the maximum possible mass of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ crystals that can be obtained is about 30 g.

[M_r of $\text{CuO} = 79.5$ M_r of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O} = 249.5$]

Give your answer to an appropriate number of significant figures.

(3)

Physics

- (b) The speed of the car affects the thinking distance and the braking distance.

Discuss other factors that affect the thinking distance and the braking distance of the car.

(4)