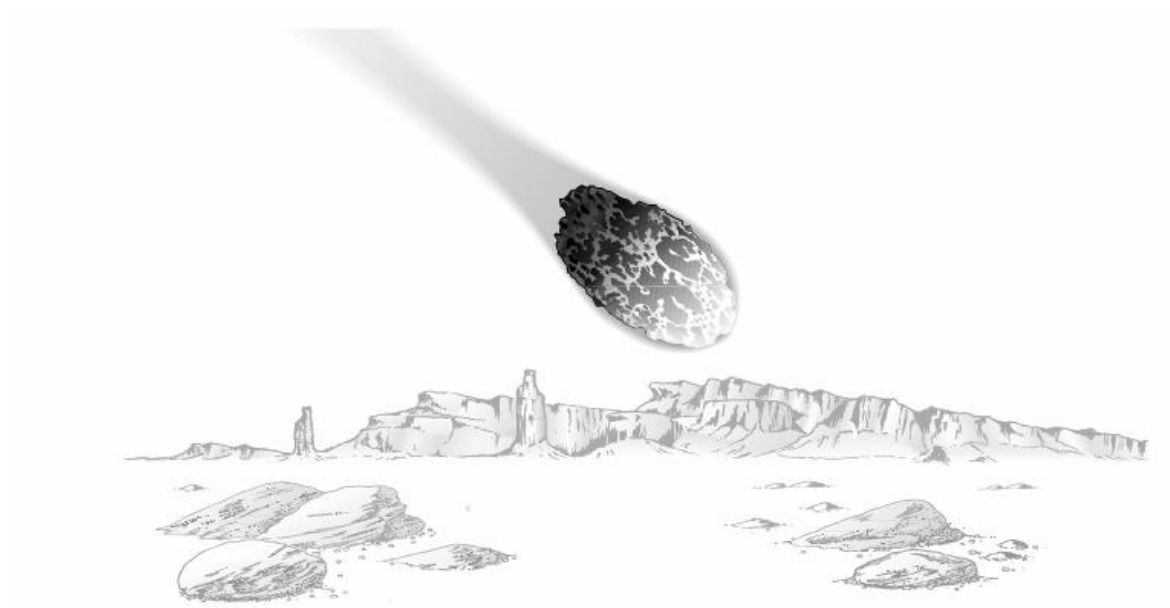


4. A meteorite landed on Earth. It contained a new element. Scientists called the element jovium.



- (a) The list below shows some properties of jovium.

Which **two** properties suggest that jovium could be a metal?
Tick **two** boxes.

It has a high melting point.

☐

It does **not** stick to a magnet.

☐

It is a blue solid.

☐

It is a good conductor of heat and electricity.

☐

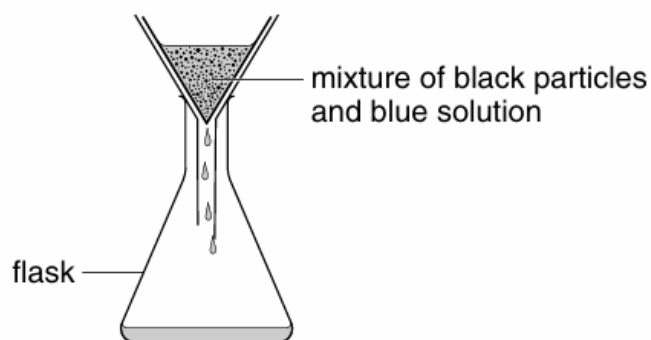
It glows in the dark.

☐

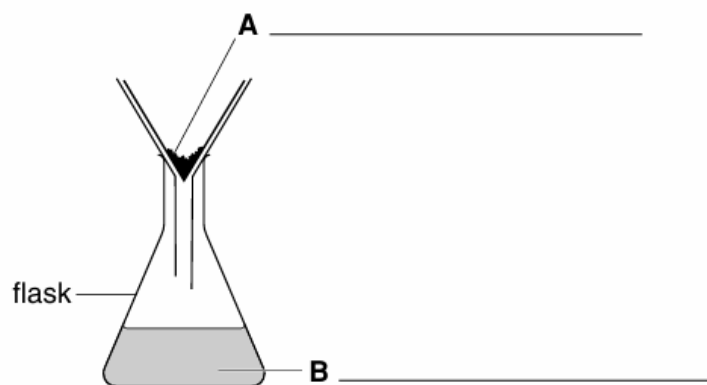
- (b) A scientist put a piece of the meteorite in water and stirred it. This produced a blue solution with tiny, solid, black particles in it.

He separated the black particles from the blue solution using the apparatus below.

- (i) Give the name of this method of separation.



- (ii) The diagram below shows the results. What do the labels A and B show? Write your answers on the lines.



- (c) The scientist poured the contents of the flask into a dish. Two days later there were blue crystals in the dish, but **no** liquid.



at the start



blue crystals

two days later

What happened to the liquid in the dish?

maximum 6 marks