

# QuestionIT!

## Particles

- Essential knowledge



## Particles - QuestionIT

1. Draw diagrams representing the particles in a solid, liquid and gas.
2. Describe how the particles move in a solid, liquid and gas.
3. State the name of the process in each of the following changes of state:
  - a) Solid to a liquid
  - b) Liquid to a solid
  - c) Gas to a liquid
  - d) Liquid to a gas
4. Explain how a solid melts in terms of energy and forces between particles.
5. Explain why ice and iron have different melting points.

# QuestionIT!

## Particles

- Practical skills
- Mathematical skills



## Particles - QuestionIT

1. What separating technique would be used to separate the following:
  - a) Sand from water
  - b) Copper sulfate crystals from copper sulfate solution
  - c) Water from salty water
  - d) Coloured inks from black ink
  - e) Salt from salty water
2. Describe the processes involved in distillation.
3. Rock salt contains sand and salt. A student mixed rock salt in warm water. Describe how the student would separate out the sand, salt and water from the mixture formed.

## Particles - QuestionIT

4. Convert the following number: 56.74528
  - a. to 2 significant figures
  - b. to 3 significant figures
  - c. to 1 decimal place
  - d. to 4 decimal places
  
5. Calculate the R<sub>f</sub> value for the green spot:

