7G Particles

Draw a ring around a number of stars for each statement. If you are very confident about a statement, draw your ring around all the stars. If you do not know anything about a statement do not draw a ring.

| Topic | At the end of the unit: |  |  |
| --- | --- | --- | --- |
| 7Ga | | | |
|  | Classify materials as solid, liquid or gas. | UK, iLS, CEE | \* \* \* \* \* |
|  | Describe the properties of the three states of matter. | UK, iLS, CEE | \* \* \* \* \* |
|  | Describe what is meant by density. | UK, iLS, CEE | \* \* \* \* \* |
| 7Gb Working Scientifically | | | |
|  | Describe the roles of scientific observations, questions, hypotheses, predictions, experiments and data within the scientific method. | UK, iLS, CEE | \* \* \* \* \* |
|  | Describe how evidence and observations are used to support (or provide evidence against) a hypothesis. | UK, iLS, CEE | \* \* \* \* \* |
|  | Describe how evidence and observations are used to develop a hypothesis into a theory. | UK, iLS, CEE | \* \* \* \* \* |
| 7Gb | | | |
|  | Recall that all materials are made out of tiny particles. | UK, iLS, CEE | \* \* \* \* \* |
|  | Describe, draw and recognise the arrangement of particles in solids, liquids and gases. | UK, iLS, CEE | \* \* \* \* \* |
|  | Use particle theory to explain the basic properties of solids, liquids and gases. | UK, iLS, CEE | \* \* \* \* \* |
|  | Suggest explanations for observations using particle theory. | UK, iLS, CEE | \* \* \* \* \* |
| 7Gc | | | |
|  | Describe Brownian motion. | UK, iLS, CEE | \* \* \* \* \* |
|  | State where Brownian motion can be observed. | UK, iLS, CEE | \* \* \* \* \* |
|  | Use particle theory to explain how Brownian motion occurs. | UK, iLS, CEE | \* \* \* \* \* |
|  | Use nanometres as a unit of measurement. | UK, iLS, CEE |  |
| 7Gd | | | |
|  | State what is meant by diffusion. | UK, iLS, CEE | \* \* \* \* \* |
|  | Recall some everyday examples of diffusion. | UK, iLS, CEE | \* \* \* \* \* |
|  | Use particle theory to explain how diffusion occurs. | UK, iLS, CEE | \* \* \* \* \* |
|  | Explain why the speed of diffusion in gases is faster than in liquids | UK, iLS, CEE | \* \* \* \* \* |
| 7Ge | | | |
|  | State what is meant by gas pressure. | UK, iLS, CEE | \* \* \* \* \* |
|  | Recognise some effects of gas pressure. | UK, iLS, CEE | \* \* \* \* \* |
|  | Use particle theory to explain gas pressure, its effects and how it can be changed. | UK, iLS, CEE | \* \* \* \* \* |
|  | Describe what a vacuum is. | UK, iLS, CEE | \* \* \* \* \* |