Department: Science: Chemistry -Matter, Reactions and Earth and the universe
Year Group: Seven

Working toward	Working at	Working above
- Identifies solids, liquids, and gases with basic properties. - Recognizes that materials can change state. - Understands that particles are too small to see. - Identifies signs of chemical reactions (e.g. fizzing, colour change). - Names common acids and alkalis. - Recognizes that mixing substances can cause changes. - Names layers of the Earth and basic rock types. - Can name some planets in the solar system. - Can name a phase of the moon.	- Describes particle arrangements in solids, liquids, and gases. - Explains changes of state using the particle model. - Understands conservation of mass in physical changes. - Describes chemical reactions using word equations. - Explains neutralisation and combustion reactions. - Understands the reactivity series and displacement. - Describes the rock cycle and formation of sedimentary rocks. - Describes why we see different phases of the moon. - Have an understanding of how we can explore space.	- Applies the particle model to explain diffusion and pressure. - Evaluates limitations of the particle model. - Explains density and changes of state using kinetic theory. - Predicts products of chemical reactions using patterns. - Balances simple chemical equations. - Explains why acids and alkalis are strong and weak. - Explains why igneous rocks have different sizes of crystals. - Explains why and how eclipses occur. - Evaluates the different models of the universe.