Particles and The periodic Table

Topic Checklist / Progression Check

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Dalton's Model	Start	End
Describe Dalton's atomic theory		
- Describe elements using physical properties		
- Write and identify the chemical symbols for elements		
- **Chemical Properties**		
Explain the difference between physical and chemical changes and properties		
- Use atomic theory to explain what happens during chemical reactions		
- Write and interpret chemical formulae		
- **Mendeleev's Table**		
Use the periodic table to find elements with similar properties		
- Describe some typical properties of alkali metals, halogens and noble gases		
- Describe how the periodic table is arranged		
- **Physical Trends**		
Explain melting, freezing and boiling points and use them to predict the state of a substance		
- Describe and identify trends in physical properties within the periodic table		
- Identify metal and non-metals by their properties and position in the periodic table		
- **Chemical Trends**		
Describe the reactions of some elements with water and oxygen		
- Identify trends and make predictions about chemical properties using the periodic table		
- **Core Practical – Energy and Reactions**		
- Classify some reactions as exothermic and endothermic		

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