***Energy Crisis***

***Generating nuclear energy***

1. Use a diagram to **explain** the term ‘nuclear fission’.
2. In a chain reaction, huge quantities of energy are
3. released. **Outline** how this happens.
4. **Describe** how a nuclear bomb works.

***Nuclear reactors***

1. **Compare** a nuclear bomb with a nuclear reactor.
2. **Describe** how an uncontrolled chain reaction is
3. prevented in a nuclear reactor.
4. Nuclear fission reactors produce lots of energy. **Identify** three situations where a nuclear reactor may be used.
5. **Identify** which part of a nuclear reactor:
6. slows down neutrons to speeds at which they are more likely to cause fission
7. absorbs neutrons to prevent them causing other atoms to split
8. transfers energy to a turbine

***Nuclear dangers***

1. **Describe** two dangers of using nuclear energy.
2. **Outline** how high-level nuclear waste is stored.
3. There are risks involved in storing nuclear waste. **Describe** some of these risks.

***Alternative energy sources***

1. Use a diagram to **demonstrate** how nuclear fusion occurs.
2. **State** the main advantage of nuclear fusion.
3. **Explain** why using nuclear fusion is technically difficult.
4. **List** three other types of alternative energy.