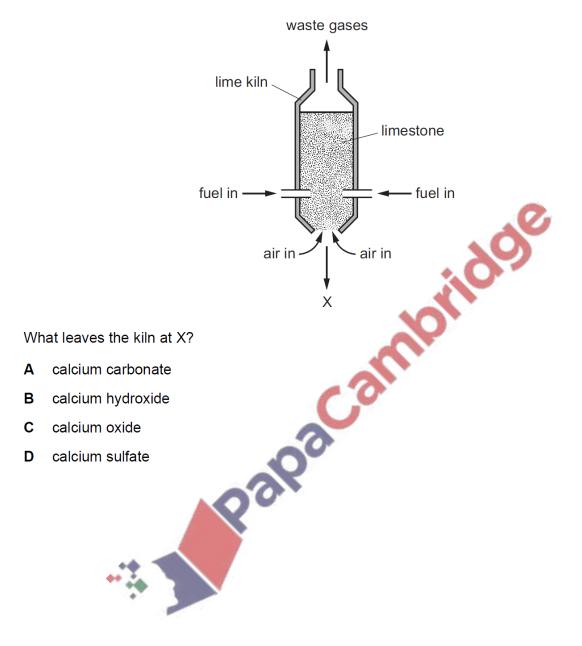
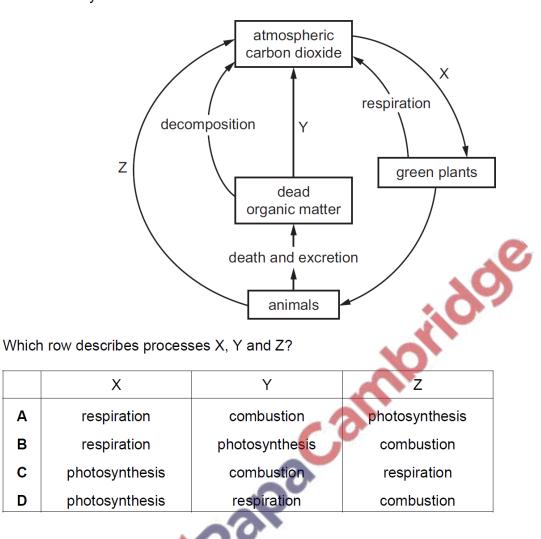
Carbonates – 2019 June

1. 0620/11,12,13,21,22,23/M/J/19/No.33,34

The diagram represents a lime kiln used to heat limestone to a very high temperature.



2. 0620/21/M/J/19/No.32 The carbon cycle is shown.



3. 0620/12/F/M/19/No.34 Lime is made by heating limestone.

Which equation represents this reaction?

- $\textbf{A} \quad \text{CaCO}_3 \rightarrow \textbf{Ca} + \textbf{O}_2 + \textbf{CO}$
- $\textbf{B} \quad \text{CaCO}_3 \ \rightarrow \ \text{CaO} \ + \ \text{CO}_2$
- $\label{eq:caco} \textbf{C} \quad \text{CaCO}_3 \ \textbf{+} \ \text{H}_2\text{O} \ \rightarrow \ \textbf{CaO} \ \textbf{+} \ \text{H}_2\text{CO}_3$
- $\textbf{D} \quad \text{CaCO}_3 \ \textbf{+} \ \text{H}_2\text{O} \ \rightarrow \ \text{Ca}(\text{OH})_2 \ \textbf{+} \ \text{CO}_2$

4. 0620/22/F/M/19/No.34

Which process removes carbon dioxide from the Earth's atmosphere?

- A combustion
- B heating limestone
- **C** photosynthesis
- D respiration

Papacamonidose