

Change of state: melting curves

Change of state

ice → water → steam

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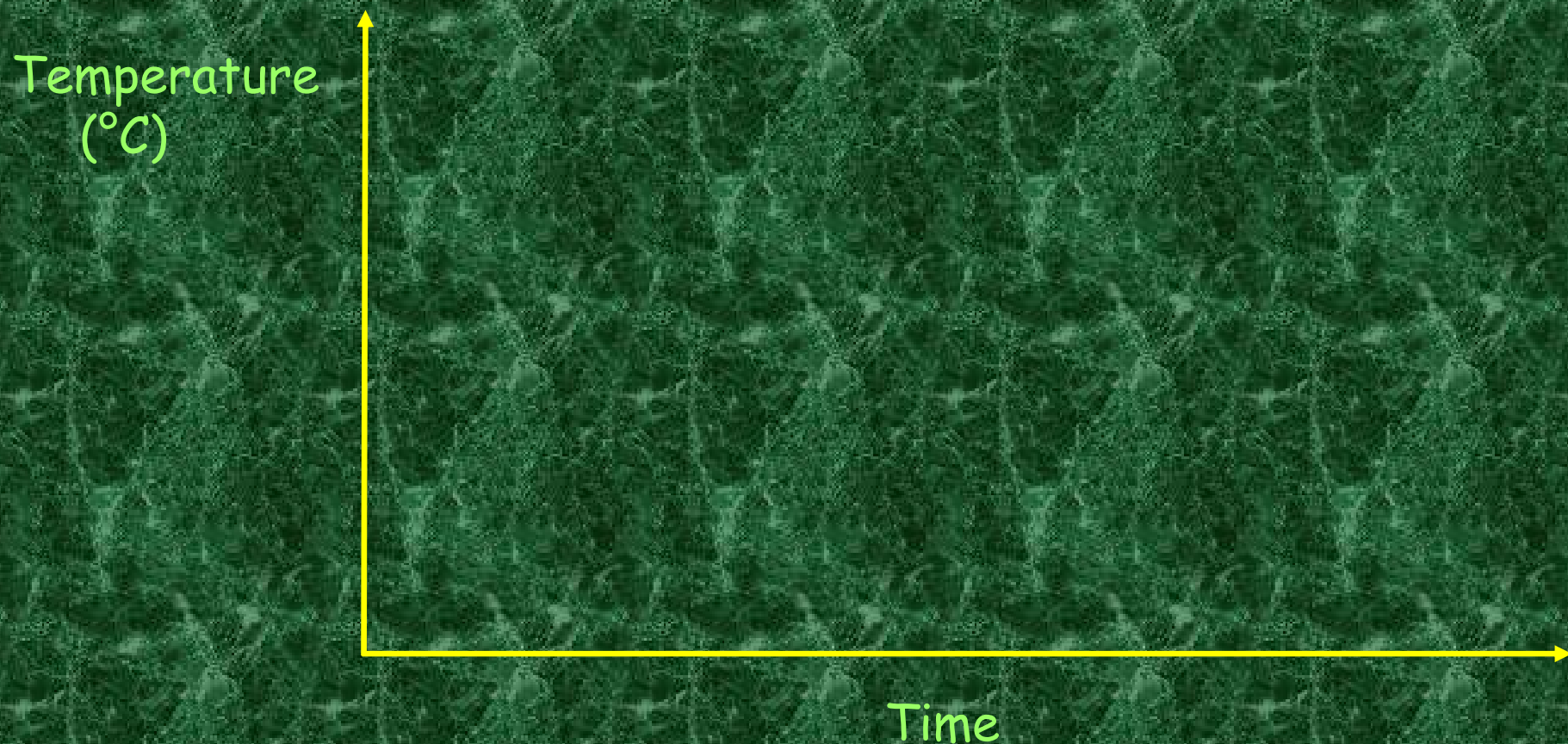
Temperature
(°C)



Draw a graph of temperature ...

Change of state

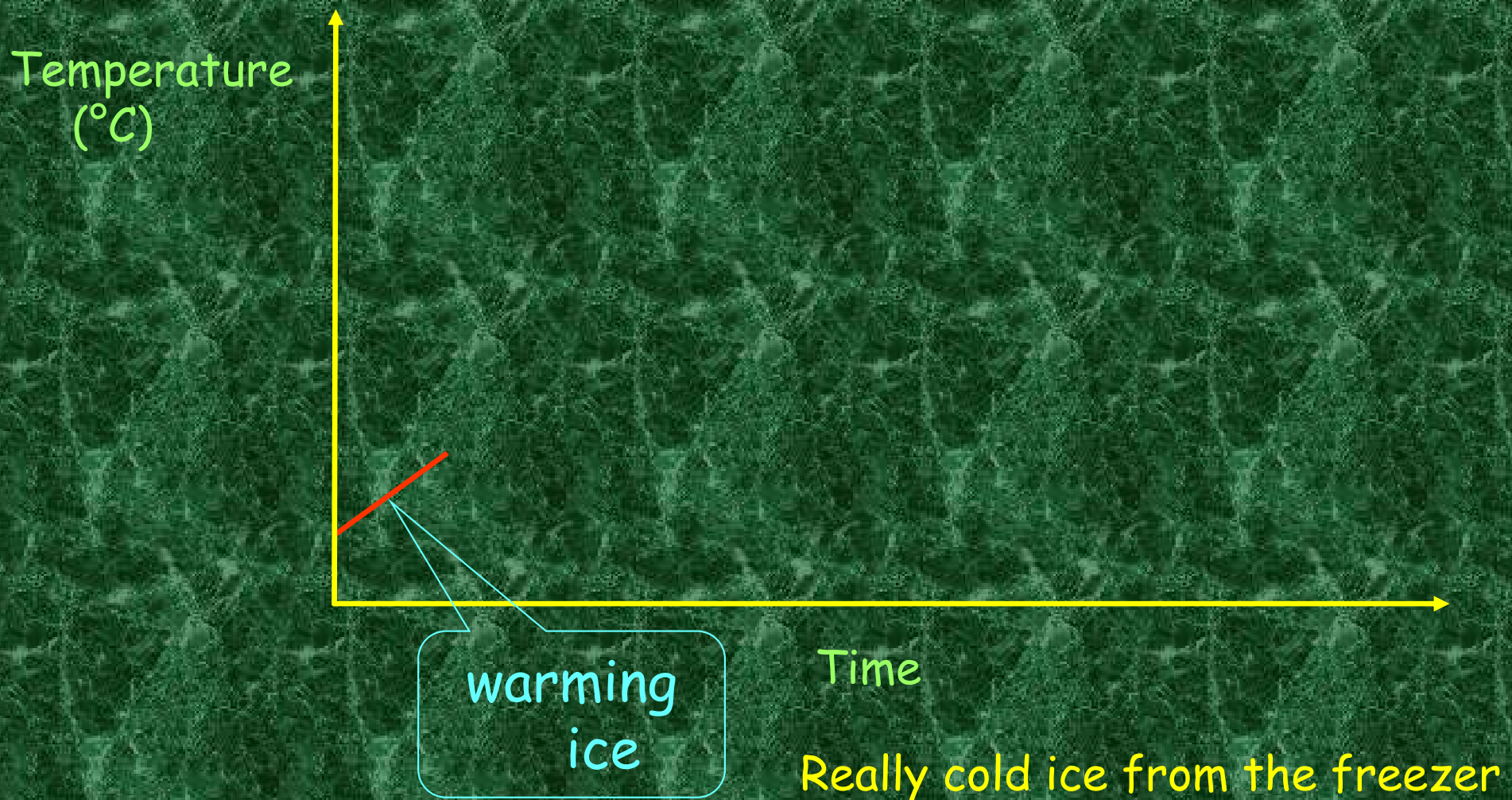
ice → water → steam



... against the length of time it has been heated

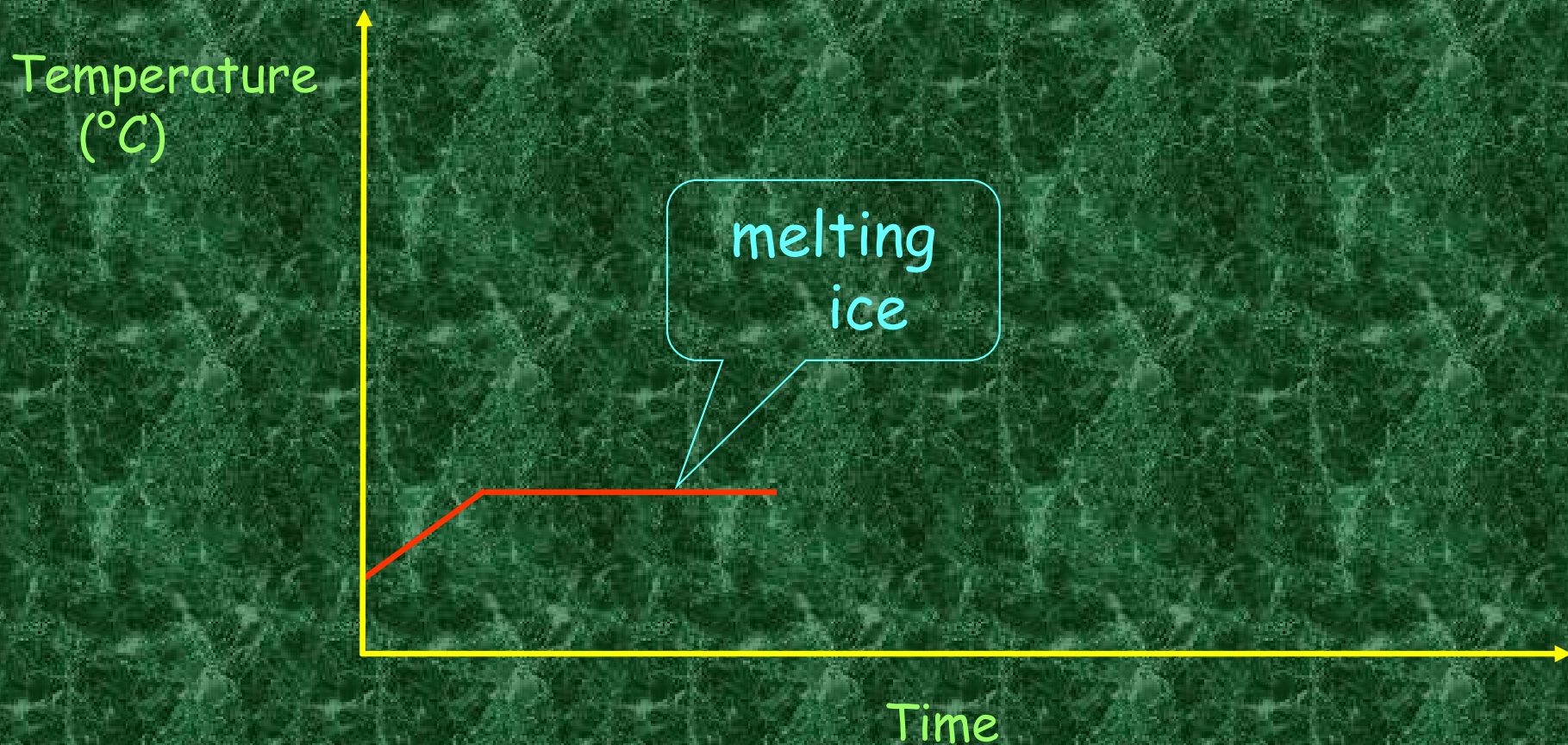
Change of state

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Change of state

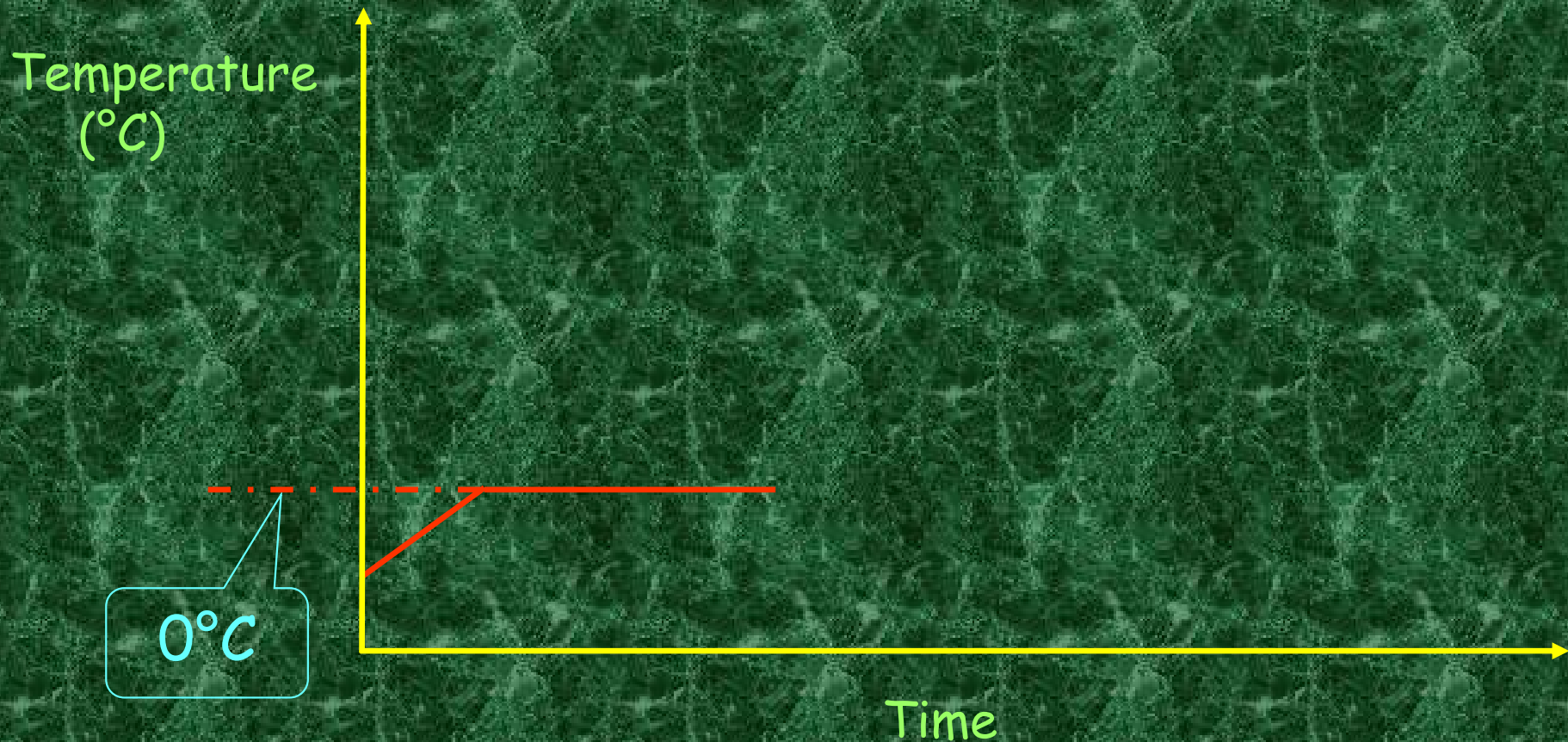
ice → water → steam



The temperature stays the same as the ice melts

Change of state

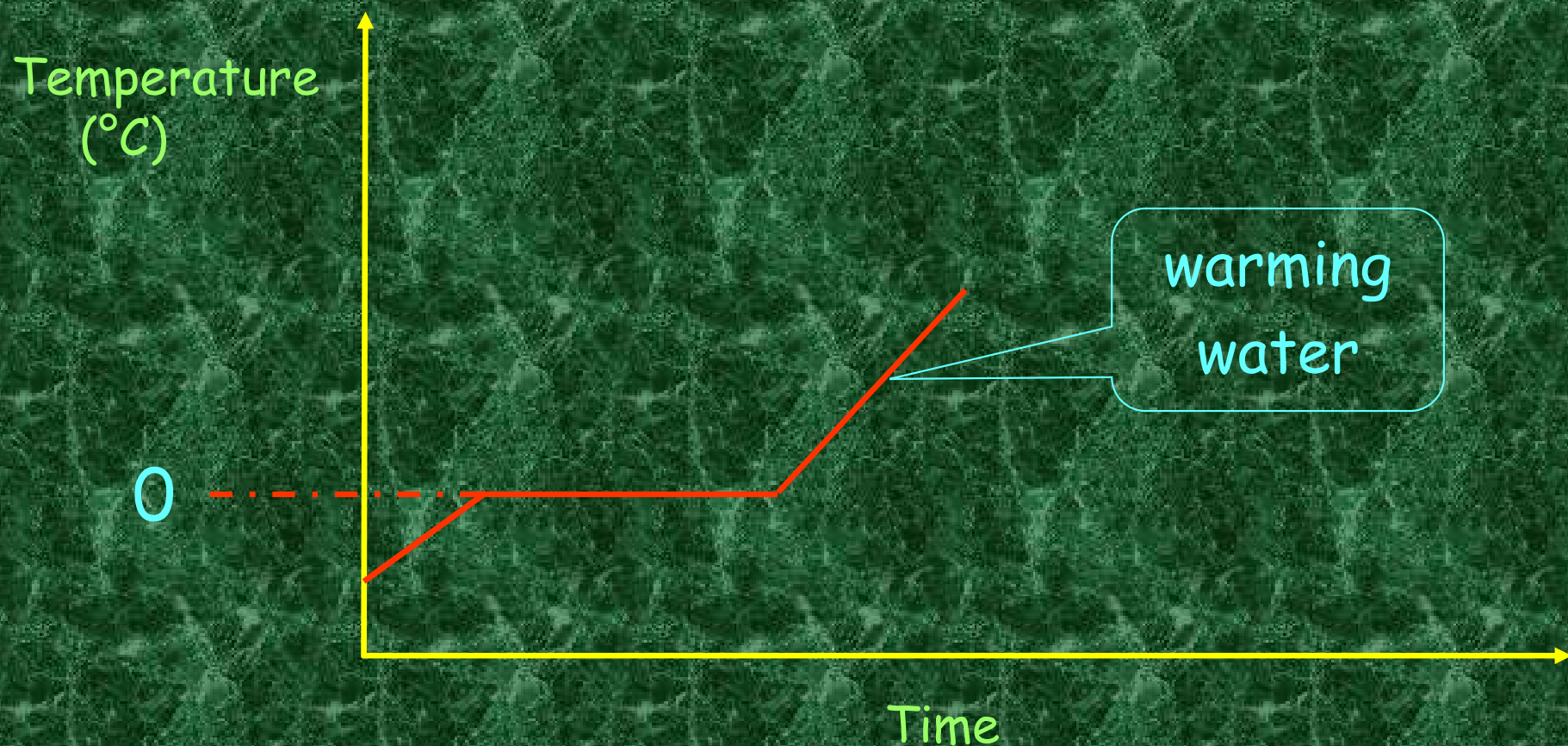
ice \rightarrow water \rightarrow steam



Pure water melts at 0°C

Change of state

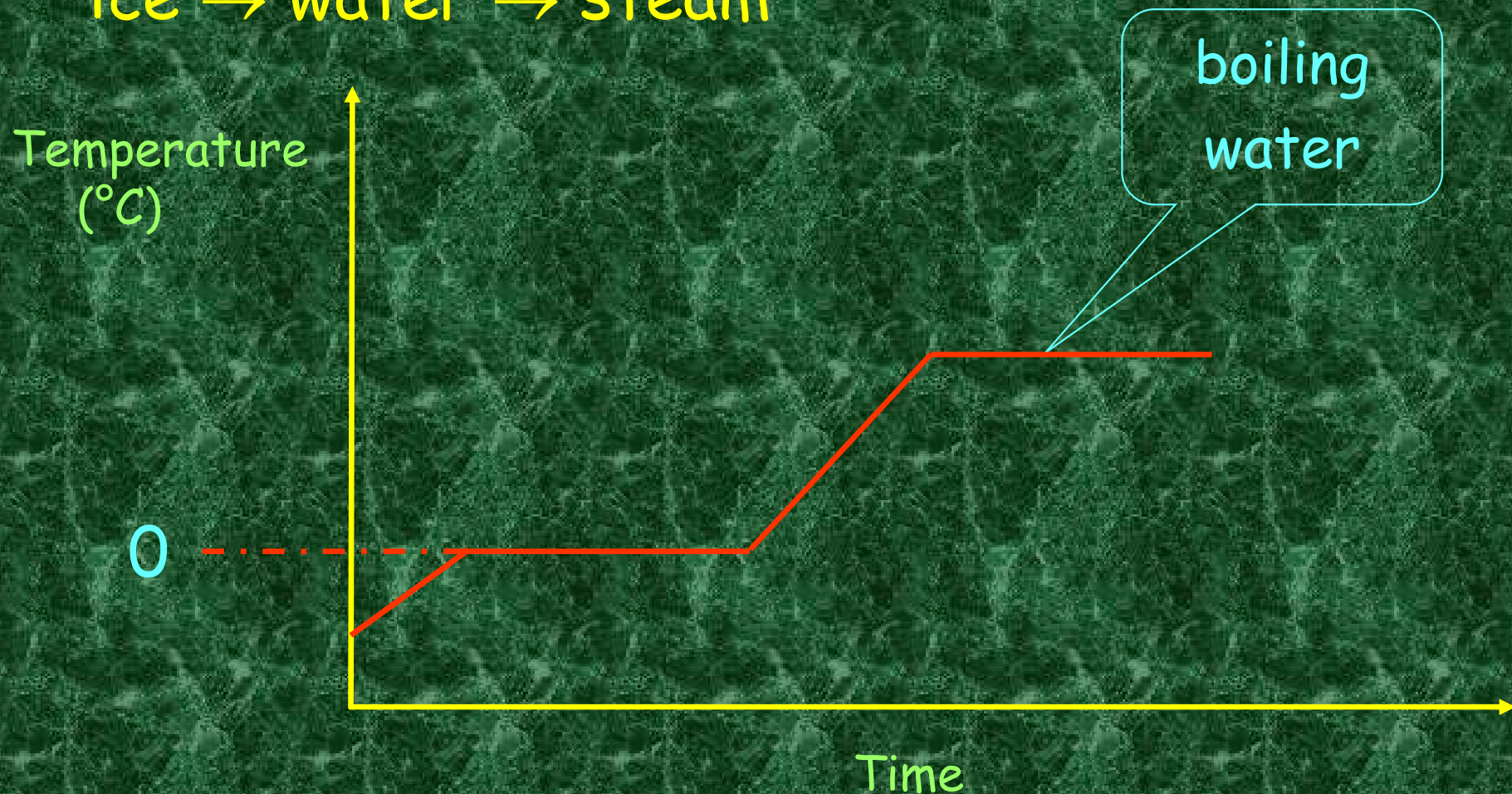
ice \rightarrow water \rightarrow steam



The temperature goes up as the water is warmed

Change of state

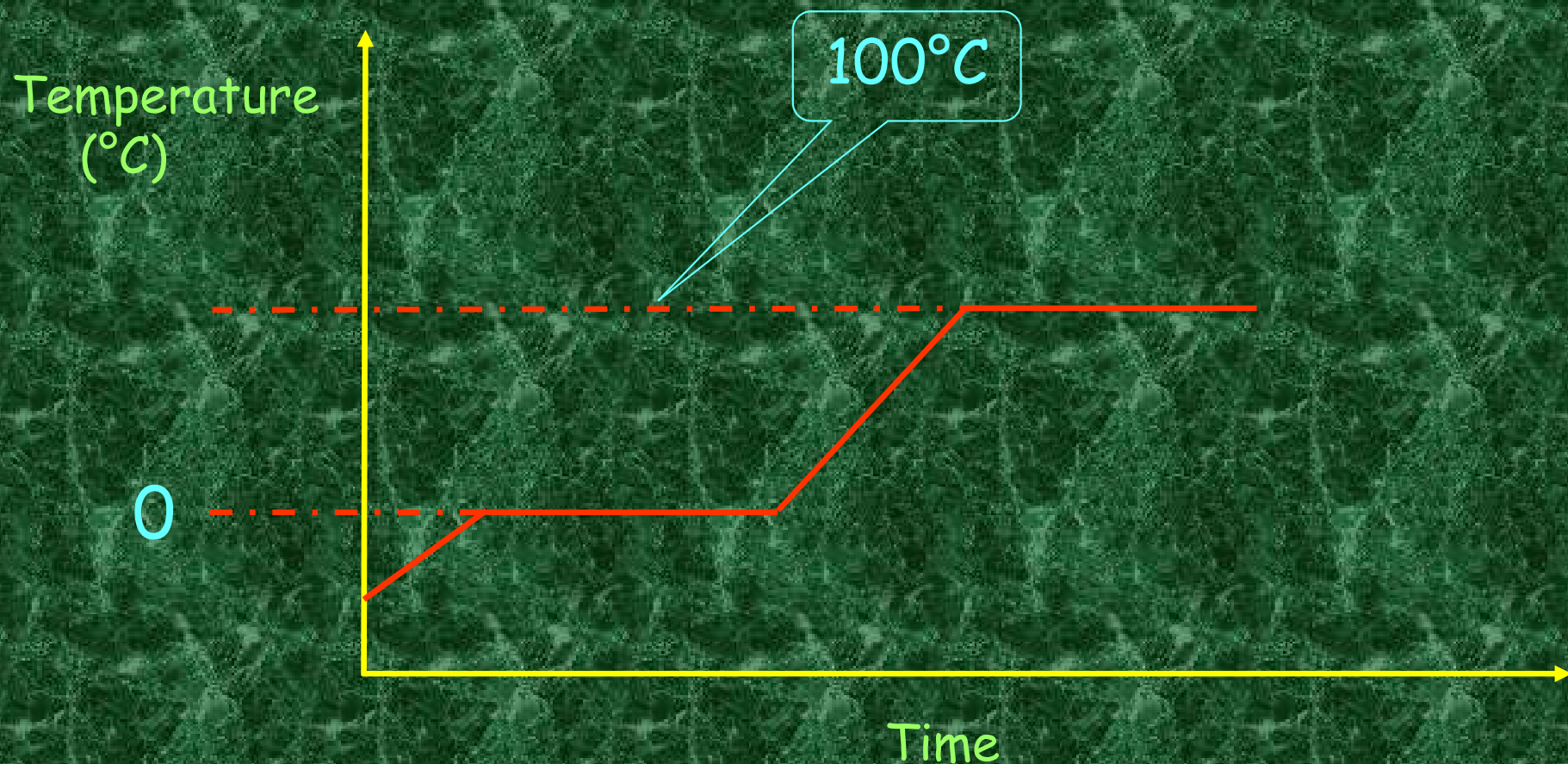
ice → water → steam



The temperature stays the same while the water boils

Change of state

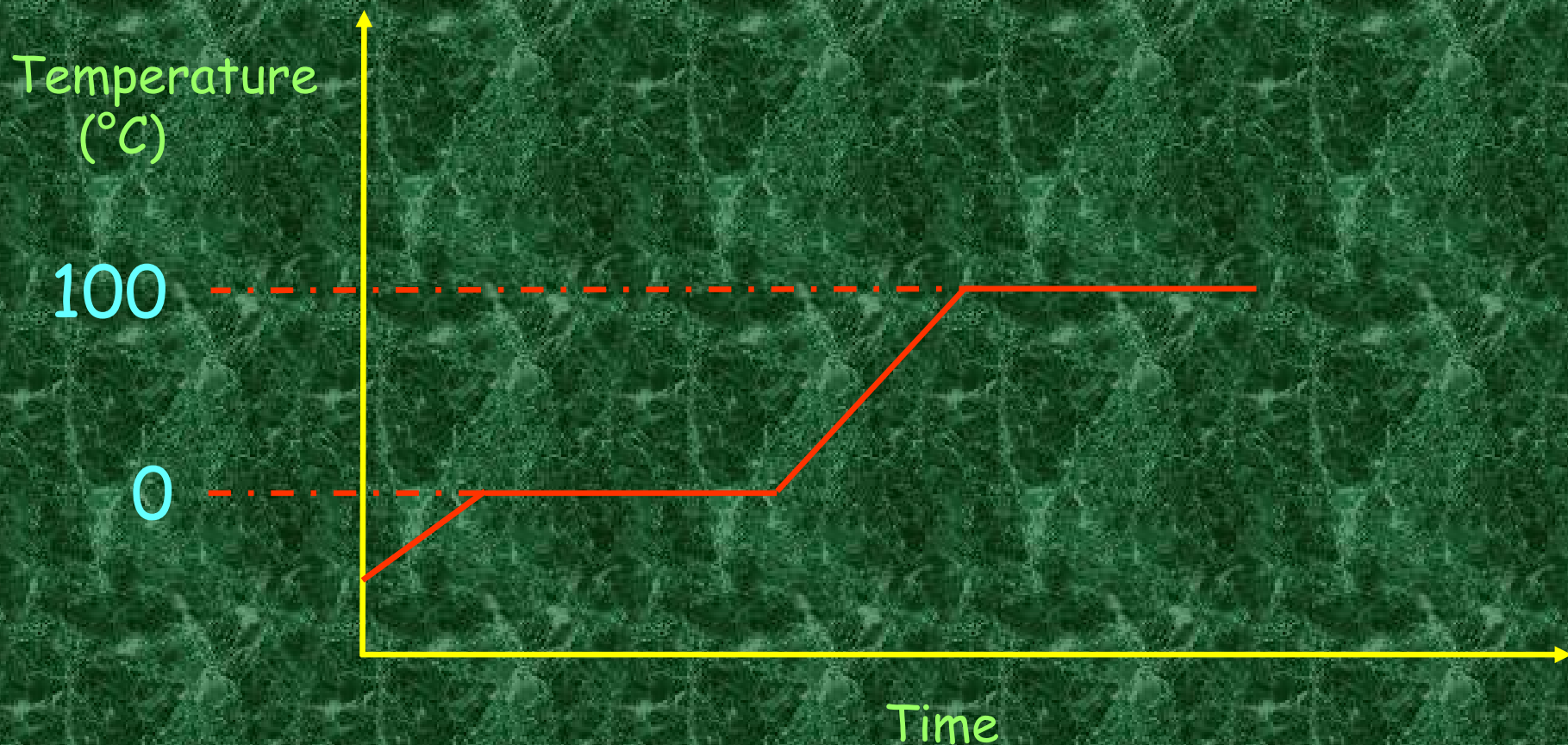
ice \rightarrow water \rightarrow steam



Pure water boils at 100°C

Change of state

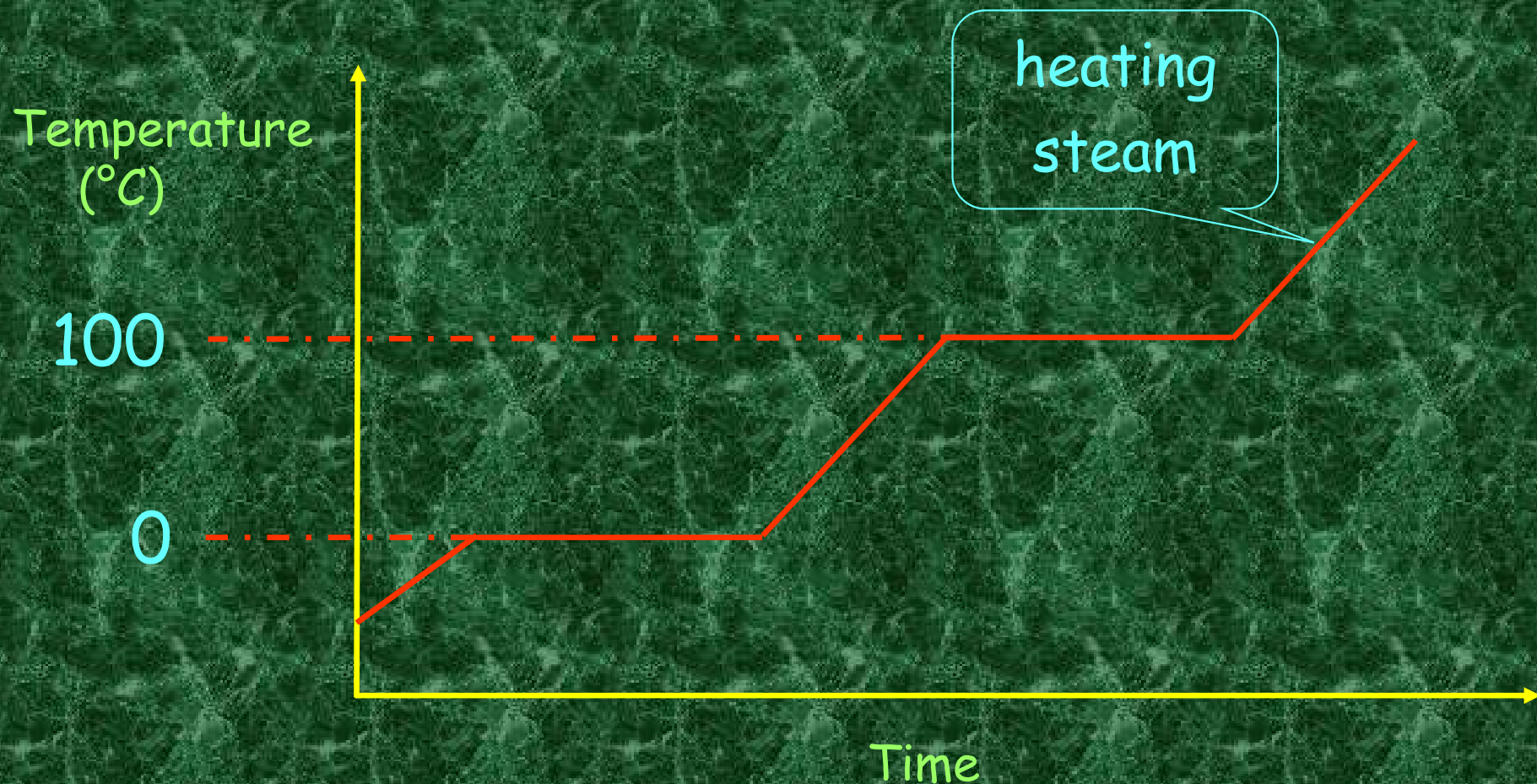
ice → water → steam



Pure water melts at 0°C and boils at 100°C

Change of state

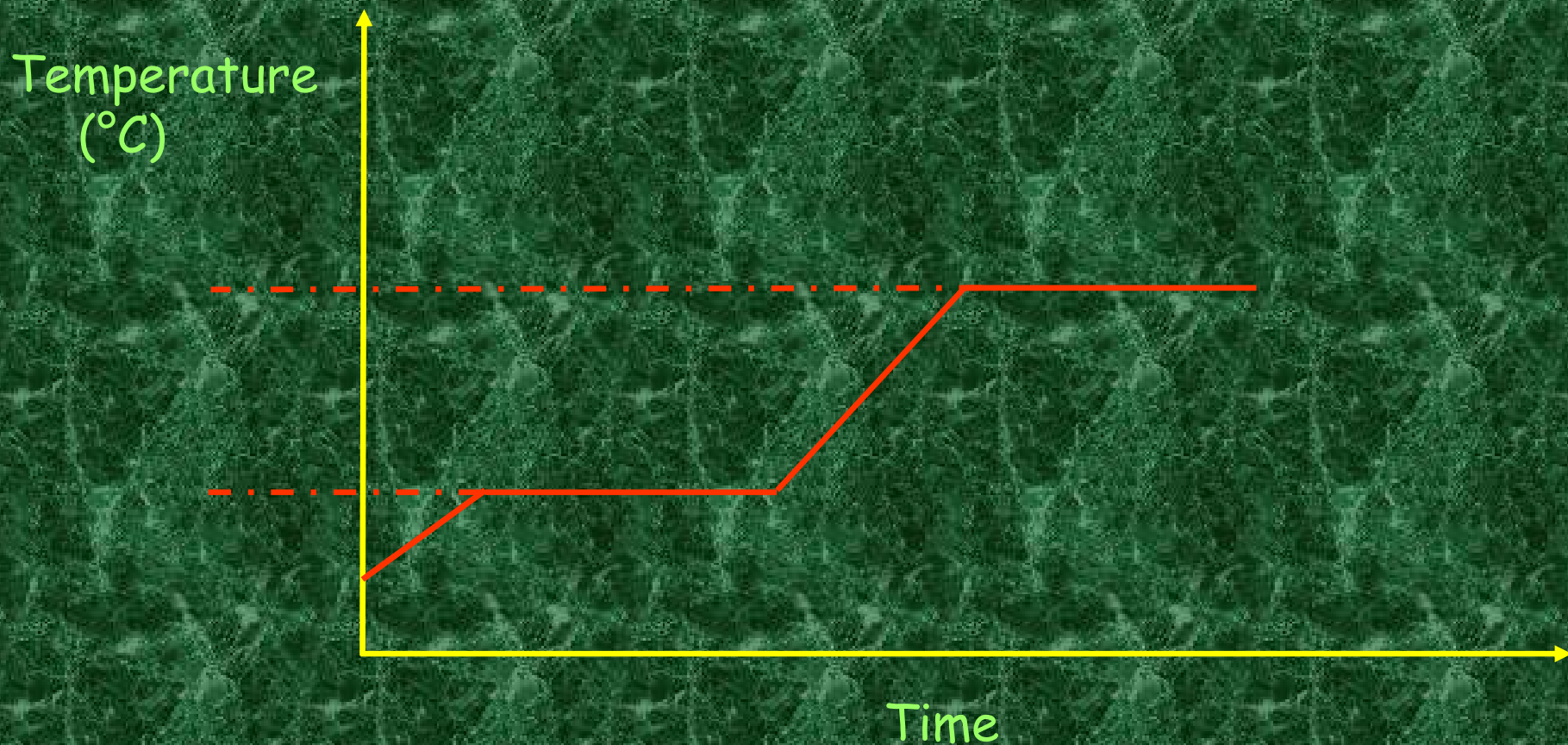
ice → water → steam



Steam can give you a far worse burn than boiling water

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Pure water melts at°C and boils at°C