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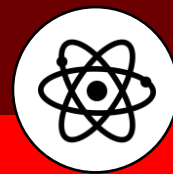
# 2010

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18 Magnesium hydrogen phosphate contains the following ions:  $\text{Mg}^{2+}$ ,  $\text{H}^+$  and  $\text{PO}_4^{3-}$ .

Which one of the following is a possible formula for magnesium hydrogen phosphate?

- A  $\text{Mg}(\text{HPO}_4)_2$
- B  $\text{Mg}(\text{H}_2\text{PO}_4)_2$
- C  $\text{MgH}_3\text{PO}_4$
- D  $\text{Mg}(\text{H}_3\text{PO}_4)_2$
- E  $\text{Mg}_2\text{HPO}_4$
- F  $\text{Mg}_2\text{H}_2\text{PO}_4$



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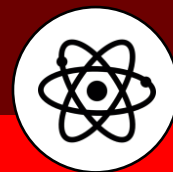
# 2012

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14 Azurite is a mineral made up of a mixture of  $\text{CuCO}_3$  and  $\text{Cu}(\text{OH})_2$ .

Which one of the following is a possible formula of azurite?

- A  $\text{Cu}_3\text{CH}_4\text{O}_4$
- B  $\text{Cu}_3\text{CH}_4\text{O}_5$
- C  $\text{Cu}_3\text{CH}_4\text{O}_6$
- D  $\text{Cu}_3\text{C}_2\text{H}_2\text{O}_6$
- E  $\text{Cu}_3\text{C}_2\text{H}_2\text{O}_7$
- F  $\text{Cu}_3\text{C}_2\text{H}_2\text{O}_8$



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# 2015

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- 10 Which of the following statements about the alkali metal rubidium is correct?
- A Rubidium and chlorine are formed when an aqueous solution of rubidium chloride is electrolysed.
  - B Rubidium has higher melting and boiling points than sodium.
  - C Rubidium reacts more slowly with water than sodium, forming hydrogen gas.
  - D Rubidium is stored under oil.
  - E Rubidium sulfate has the formula  $\text{RbSO}_4$