Chapter Summary Worksheet

Chapter 10
The periodic table: group 2

Print out and complete this worksheet to generate a summary for Chapter 10.

1 The most polarising ion is

- ☐ **A** Mg^{2+}
- ☐ **B** Ca^{2+}
- ☐ **C** Sr^{2+}
- ☐ **D** Ba^{2+}

2 The most covalent chloride is

- ☐ **A** $MgCl_2$
- ☐ **B** $CaCl_2$
- ☐ **C** $SrCl_2$
- ☐ **D** $BaCl_2$

3 Which metal has the lowest melting temperature?

- ☐ **A** Mg
- ☐ **B** Ca
- ☐ **C** Sr
- ☐ **D** Ba

4 Which hydroxide is the **least** soluble in water?

- ☐ **A** $Mg(OH)_2$
- ☐ **B** $Ca(OH)_2$
- ☐ **C** $Sr(OH)_2$
- ☐ **D** $Ba(OH)_2$

5 Which is the only group 1 nitrate that produces brown fumes when it is heated strongly?

- ☐ **A** $LiNO_3$
- ☐ **B** $NaNO_3$
- ☐ **C** KNO_3
- ☐ **D** $RbNO_3$

6 Which takes the longest to produce brown fumes on heating?

- ☐ **A** $Mg(NO_3)_2$
- ☐ **B** $Ca(NO_3)_2$
- ☐ **C** $Sr(NO_3)_2$
- ☐ **D** $Ba(NO_3)_2$

7 The colour change at the end point when acid is added from a burette to an alkali in the presence of a few drops of methyl orange is

- ☐ **A** from red to yellow
- ☐ **B** from red to orange
- ☐ **C** from yellow to orange
- ☐ **D** from yellow to red

8 If the titre is $8.00\,cm^3$, the percentage error when using a burette that is accurate to $\pm 0.05\,cm^3$ is

- ☐ **A** 0.625%
- ☐ **B** 1.25%
- ☐ **C** 8.05%
- ☐ **D** 8.1%

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