

Name \_\_\_\_\_ Date \_\_\_\_\_

## Worksheet 6.1: The iconic model

1 What is an ion?

\_\_\_\_\_

2 Work out the charge on the following ions:

Zn

\_\_\_\_\_

Fe(III)

\_\_\_\_\_

CO<sub>3</sub>

\_\_\_\_\_

Cl

\_\_\_\_\_

SO<sub>4</sub>

\_\_\_\_\_

3 Write down the formula for the following compounds:

magnesium bromide

\_\_\_\_\_

calcium nitride

\_\_\_\_\_

iron(III) iodide

\_\_\_\_\_

potassium oxide

\_\_\_\_\_

aluminium nitrate

\_\_\_\_\_

4 What is meant by the term ionic bond?

\_\_\_\_\_

\_\_\_\_\_

5 Draw dot and cross diagrams to show the formation of lithium chloride and calcium fluoride, showing all of the electrons.

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6 Draw the structure of potassium fluoride (KF).

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