**Grade 4-5: Represent ionic bonding using a dot and cross diagram**

1. Draw the normal structure for Be and O, using the template to help you.

Be O

1. Draw an arrow on your diagram to show which electron is moving and where it is going.
2. Using the template below draw the ions for Be+ and O- (which when drawn together represent an ionic bond).

Be+ O-

1. Put the charge just outside either bracket, at the top right hand corner for each ion.
2. Draw the normal structure for Mg and O, using the template to help you.

Mg O

1. Draw an arrow on your diagram to show which electron is moving and where it is going.
2. Using the template below draw the ions for Mg+ and O- (which when drawn together represent an ionic bond).

Mg+ O-

1. Put the charge just outside either bracket, at the top right hand corner for each ion.
2. Draw the Normal structure for Ca and S, using the template to help you.

Ca S

1. Draw an arrow on your diagram to show which electron is moving and where it is going.
2. Using the template below draw the ions for Ca+ and S- (which when drawn together represent an ionic bond).

Ca+ S-

1. Put the charge just outside either bracket, at the top right hand corner for each ion.