## Covalent Bonding – Breaking the rules

Pre-lesson assignment- textbook page 65 and 66-7

## Define the following terms

• Dative covalent/ Coordinate Bond

## Make notes on dative bonds and hypervalency

Use the following questions as guidance

- 1. Explain why boron compounds break our 'octet rule' from GCSE. Use BF₃ as an example, including a dot and cross diagram.
- 2. Explain why the elements in the p-block in period 3 can form multiple fluoride compounds.
- 3. Demonstrate, using an ammonium ion, why it is that dative covalent bonds can form.