1.1 Exercise 4 – ionisation energies

- 1. Why does the first ionisation energy of atoms generally increase across a period?
- 2. Why is the first ionisation energy of boron less than that of beryllium?
- 3. Why is the first ionisation energy of oxygen less than that of nitrogen?
- 4. Why do first ionisation energies decrease down a group?
- 5. Why does helium have the highest first ionisation energy of all the elements?
- 6. Why is the second ionisation energy of an atom always greater than the first?
- 7. Why is the second ionisation energy of sodium much greater than the first?
- 8. Why does atomic size decrease across a period?
- 9. Why does atomic size increase down a group?
- 10. Why are cations always smaller than the corresponding atoms?
- 11. Why are anions always larger than the corresponding atoms?