**1.2.2 Exercise 7 – Intermolecular Forces**

1. Complete the following table, adding five molecules which have a permanent dipole and five molecules which do not:

|  |  |
| --- | --- |
| Permanent dipole | No permanent dipole |
|  |  |

2. a) What is dipole-dipole bonding?

 b) Draw a diagram to show a **dipole-dipole bond** between two molecules of SO2.

3. a) What is a temporary dipole?

 b) What is an induced dipole?

 c) What is a **Van der Waal’s force**?

4. a) What is a hydrogen bond?

 b) Draw a diagram to show a **hydrogen bond** between two molecules of H2O.