Chemistry C3 test MRI

2dii) Sulphur hexachloride has covalent bonds because they are both non-metals. The chemical formula is SCl6

3bi) Diamond is hard in terms of properties, Strong is not a property of diamond when not talking about bonding

5b) Electrons and ions are responsible for carrying charge in metals. Ions are positively charged, and they are surrounded by a sea of negatively charged electrons.

Iron reacts with oxygen to make rust (iron oxide)

When the metal reacts with the oxygen, there is fewer free/delocalised electrons which can carry electricity therefore it is harder for the substance to carry charge