Effect of Surface Area on Rate of Reaction

Aim: To demonstrate the relationship between surface area and rate of reaction**.**

Risk Assessment:

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| Risk | Mitigation |
| Exposure to Hydrogen Peroxide  Cuts from scalpel  Ingesting liver | Wear safety glasses  Wear gloves  Wash hands after practical  Lay scalpel flat on bench  Handel with care  Do not place hands or liver near the mouth  Wash hands after practical |

Method:

1. Obtain a section of liver; scalpel; cutting board; gloves; plastic spoon, four large test tubes, mortal and pestle and hydrogen peroxide.
2. Cut 2 x 1cm3of liver and place in 2 large test tubes.
3. Cut 2 x 1cm3 of liver. Place one cube in a mortar and pestle and grind to a small particle size. Spoon this into a large test tube.
4. Repeat step 3 and spoon the ground liver into another large test tube.
5. Add 4mL of 30% hydrogen peroxide into each test tube. Measure and record the height of the bubbles.