Investigation of a silicon diode.

(a) Connect the diode between the CONTINUITY and COMMON terminals using crocodile clip leads See the diagram below.



| | CONTINUITY COMMON |
|-----|---|
| | diode What do you hear? |
| (b) | What does this tell you about the resistance of the diode? |
| (c) | Connect the diode the other way round to Squeekie. |
| | |
| | diode What do you hear? |
| (d) | What does this tell you about the resistance of the diode? |
| (e) | To see just how large the resistance of the diode is, swap the CONTINUITY setting on Squeekie for the INSULATION setting. What do you hear this time? |
| (f) | What does this tell you about the resistance of the diode? |
| (g) | Complete the following sentences. |
| | When a diode is connected one way round in a circuit its resistance is |
| | When a diode is connected the other way round in a circuit its resistance |
| | is |

Further investigations.

- (h) By using books or the Internet for research:-
 - draw the electrical symbol for a diode next to the picture of the diode in the space below. Make it the same way round.

