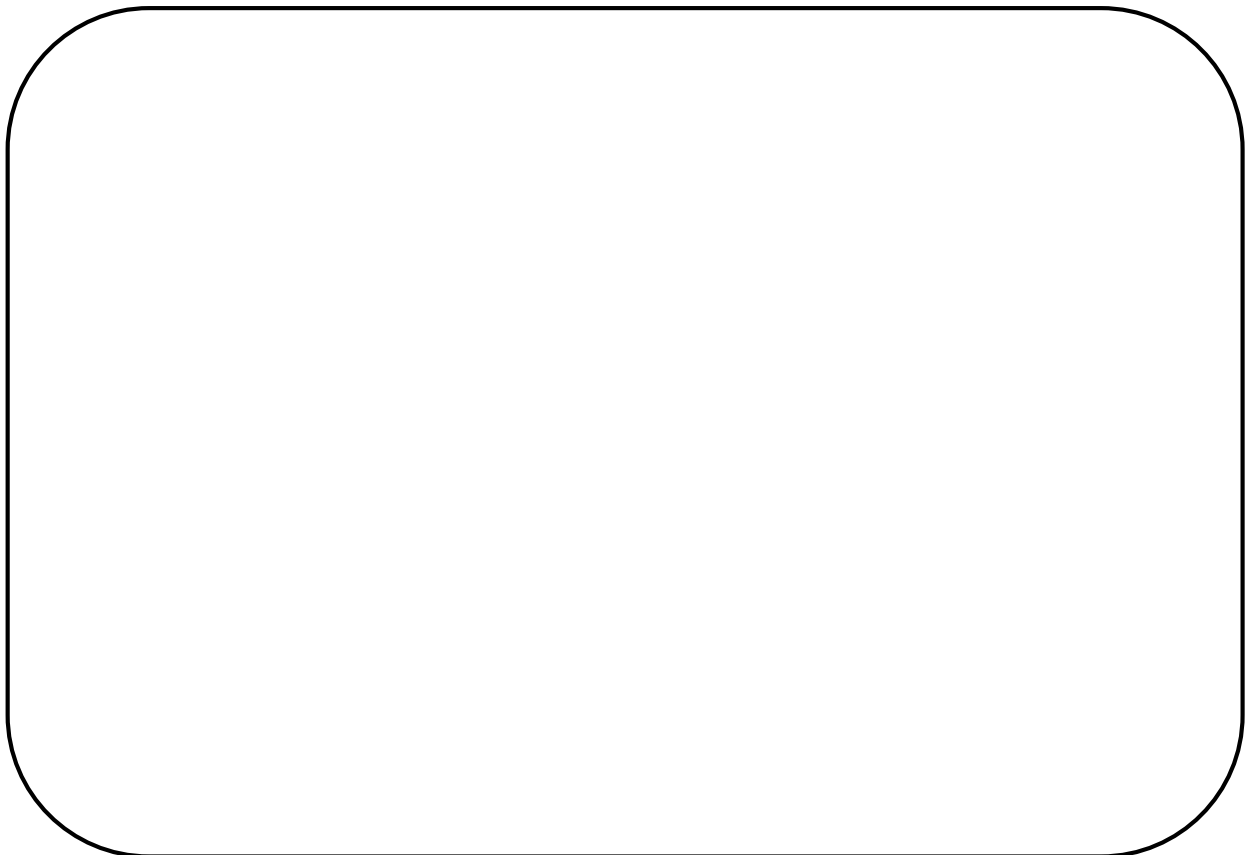


Name: _____

Year 5/6 Design and Technologies Assessment

Using your knowledge and learning of basic electrical circuits from the past few lessons, you will design and draw a basic labelled circuit diagram, for which you must write an explanation of the direction of the electrical current and what type of circuit it is. You will then build your circuit, using a range of basic components, such as wire, batteries, bulbs and switches.

1. Draw a basic electrical circuit diagram using the symbols learned and used during this unit of work, and correctly label all parts using the appropriate technical terms. You must include wire, up to 2 batteries, 1-2 light bulbs and 1 switch. Show the direction of the electrical current, using arrows. Show positive and negative on your battery/batteries. Label your circuit with the type of circuit you have drawn. /20



2. Write about your circuit diagram, describing the type of circuit you have drawn, and the parts (components) included in your circuit. Explain which direction the current will flow around your circuit, and why. /20

3. Now you must build the electrical circuit you have drawn using these components:

- wire
- up to 2 batteries
- 1-2 light bulbs
- 1 switch

Collect your materials from the front of the room and go to your desk to build your circuit. /10

Good Luck!

Personal Evaluation

Please answer the following questions to explain how you feel about your electrical circuit assessment.

1. Were you happy with the electrical circuit you designed? (circle)

YES / NO

2. Did your electrical circuit work successfully? (circle)

YES / NO

3. If no, explain why it did not work successfully.

4. What changes could you make to your design to make it work more effectively?
