Electricity Post Unit Assessment and Reflection

1. Three friends are discussing how a motor runs by a battery.

   **Maya**: Electricity flows through one wire from the battery to the motor, which uses up all the electricity. The other wire is not needed.

   **Jana**: The electric current flows through one wire to the globe where some of it is used up. The remaining electric current flows through the other wire back to the battery.

   **Paulo**: Electricity flows through both wires to the motor where it is used up.

Which person do you agree with? Explain your answer:
I agree with __________________________ because
______________________________________________________________________________
______________________________________________________________________________

2. Match the words (light bulb, battery, connecting wire, switch) to the correct letter on the diagram.

   A ________________ B ________________ C  ________________D ________________

   Is the bulb lit? ________________ Explain your answer:

______________________________________________________________________________
3. Four circuits were constructed including a light bulb, a battery and either a glass marble, an iron nail, a piece of aluminium foil or a wood toothpick. Which of the light bulbs will light up? _______________ Why?

4. Label the arrows with the correct form of energy (sound, heat, electrical)

A_________________  B_________________ C__________________

Explain how the energy moves from the battery to the guitar to the person’s ear.

Reflection:

5. Why do you sometimes have to do something a few times before it works the way you want?

6. How do you feel the design process went?
Describe moments when you felt successful.

Describe moments when you felt frustrated.