

Electricity Post Unit Assessment and Reflection

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

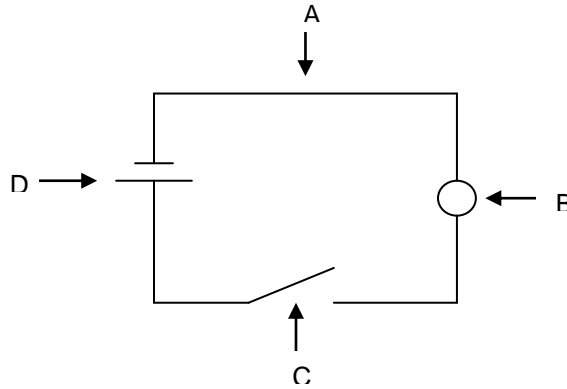
Maya: Electricity flows through one wire from the battery to the motor, which uses up all the electricity. The other wire is not needed.

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:

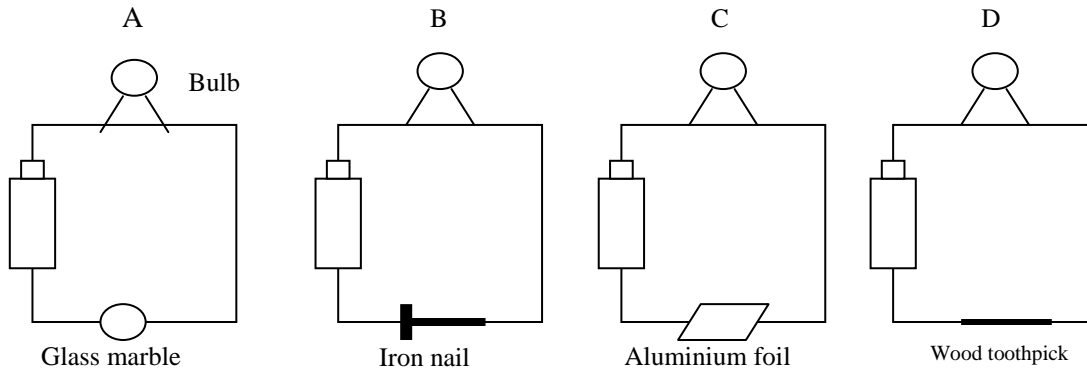
I agree with _____ because



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

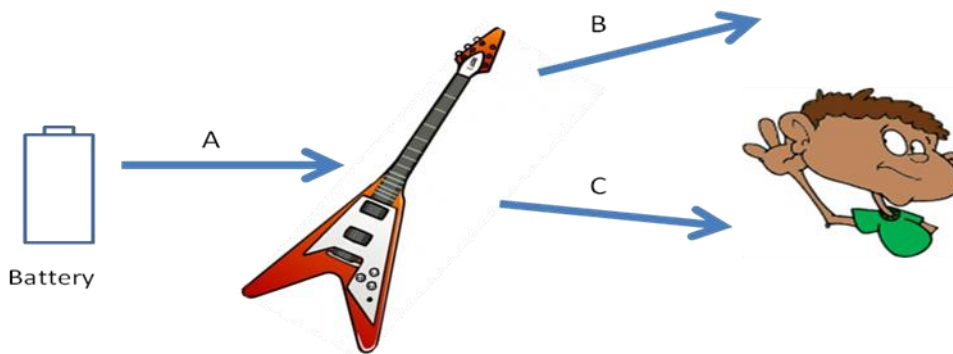
A _____ B _____ C _____ D _____

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.

Figure 1: Post Unit Assessment