2. Figure out what is in the mystery box labeled with a question mark (?).

The box has either a battery or a wire inside.

To help you figure out which one is in the box, connect this circuit with a bulb, like this:

![Circuit diagram]

Fill in the answer:

The “?” box has a _________________ in it.
BOX A: Draw pictures of the circuit (or circuits) you needed to make to figure what is in the mystery box.

Box A has ______________________ inside. Explain how you know what is inside the box.

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

- 3 -

BOX B: Draw pictures of the circuit (or circuits) you needed to make to figure what is in the mystery box.

Box B has ______________________ inside. Explain how you know what is inside the box.

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

- 4 -
BOX C: Draw pictures of the circuit (or circuits) you needed to make to figure what is in the mystery box.

Box C has ______________________ inside. Explain how you know what is inside the box.

______________________________________________________________________________

______________________________________________________________________________

______________________________________________________________________________

- 5 -

BOX D: Draw pictures of the circuit (or circuits) you needed to make to figure what is in the mystery box.

Box D has ______________________ inside. Explain how you know what is inside the box.

______________________________________________________________________________

______________________________________________________________________________

______________________________________________________________________________

- 6 -
BOX E: Draw pictures of the circuit (or circuits) you needed to make to figure what is in the mystery box.

Box E has ______________________ inside. Explain how you know what is inside the box.

______________________________________
______________________________________
______________________________________

- 7 -

BOX F: Draw pictures of the circuit (or circuits) you needed to make to figure what is in the mystery box.

Box F has ______________________ inside. Explain how you know what is inside the box.

______________________________________
______________________________________
______________________________________

- 8 -