

WELCOME STEP 1
*teach*HOUSTON Students!
Week 2: Jan 24th



Safety

- There is little chance of electrical shock – the voltage is too low--!



DANGER!



Engagement

- UFO ball activity!
- *Questions:*
 - *How does it work?*
 - *Can you make it work with all of your group members?*
 - *What is required to make it light and make noise?*



Exploration – Part I

- Make the light bulb light up!

- *Rules:*

- *Everyone needs to participate.*
- *Everyone needs to have an opportunity to touch the materials.*
- *All ideas are treated with respect.*




Exploration – Part II

- Rearrange the materials to find other ways to light up the bulb.
 - Record at least 2 ways that it lights the bulb and two ways that it does not.
 - Here are symbols that represent the materials you have :

Wire =

Bat 

Bulb = 

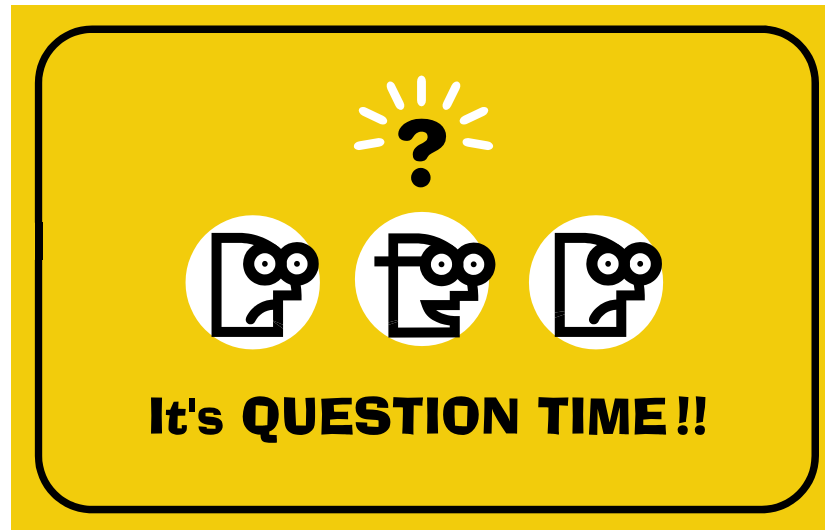


*Handout

Investigate!



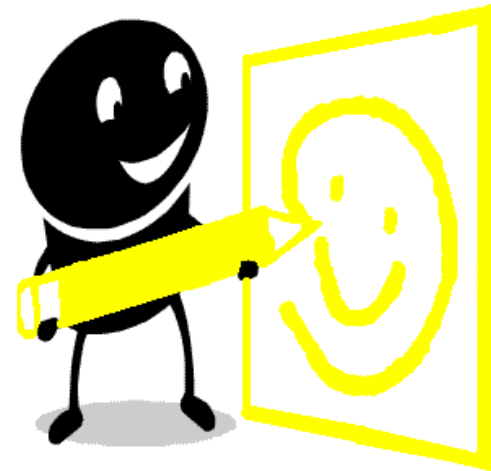
- Write 2 questions that you would like to investigate about your system.
 - Then discuss your questions with your group members.





Investigate!

- Then select, as a group, 2 questions and discuss ways to test that questions.
 - Test your questions and on the back of your paper draw your own diagrams of your investigation



Explanation

- Students will list a sample of their findings on the board. Make sure to use the symbols learned.
- Each group will share their questions, their experimental design to answer one of those questions, and their findings with the class.

Elaboration



- Examine a flashlight
 - Make a sketch of the flashlight showing the circuit that exists when the bulb is lit.
 - Can you light the flashlight bulb with your wire and battery?
 - How many wires are used to make this circuit?





Evaluation

Now let's see what you've learned!

