

# Make a Wire Maze Game Worksheet

## Data Table

Object	Buzzer Sound: Yes or No	Insulator or Conductor
Wood tongue depressor		
Screw eye		
Aluminum wire		
Electrical tape		
Foam base		

## Post-Lab Questions

- Scientists ask questions about natural phenomena and conduct investigations to find the answer to the question. Engineers define problems related to human needs and wants and design the best solution among many possible outcomes
  - In what part of this activity were you conducting a scientific investigation to answer a question?
  - In what part of this activity were you defining a problem and designing a solution like engineers?
- Based on the results recorded in the data table, what property do the conductors have in common?
- A student read that the lead in his wood pencil is actually graphite and that graphite is a conductor. He decided to investigate and set up a circuit from a battery to a small light bulb and then to the graphite tip of the pencil. Since the eraser end of the pencil had a metal strip around it, he connected the metal strip to other terminal of the battery. The bulb did not light so he concluded that the graphite was not a conductor after all.
  - Was the student correct in his conclusion?
  - Give an explanation for your answer.
- Evaluate your final design solution.
  - How successful were you at making a wire maze game that was challenging yet fun?
  - What improvements would you make if given the time to redesign the game?