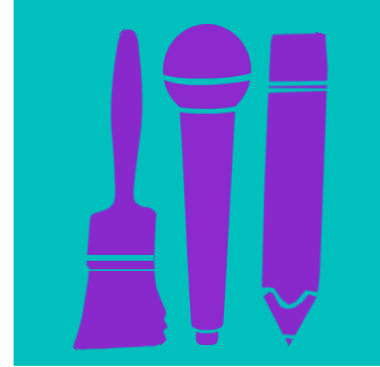


SPIRIT OF INNOVATION

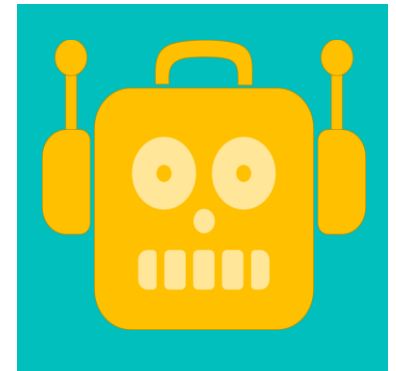
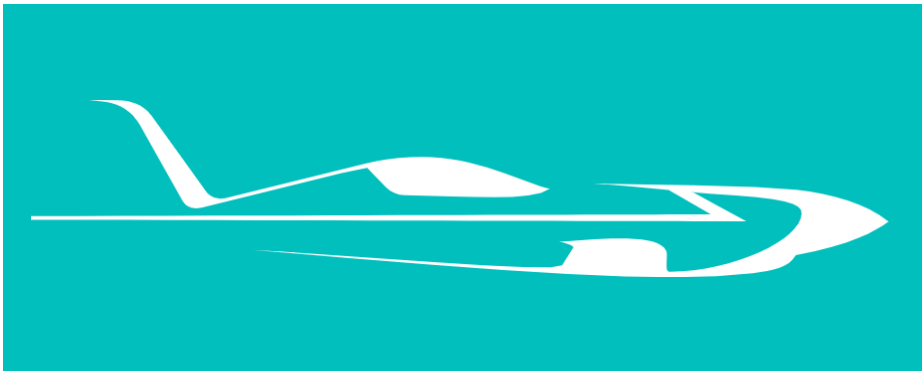
**STEAM
RESOURCES**



Spirit of Innovation

Year Four

**Presentation – How to Make an
Electrical Game**



Materials:

Cardboard

Split pins

Paper clips

Sticky Tape

Scissors

Foil

Buzzer

Bulb

Battery

Wire

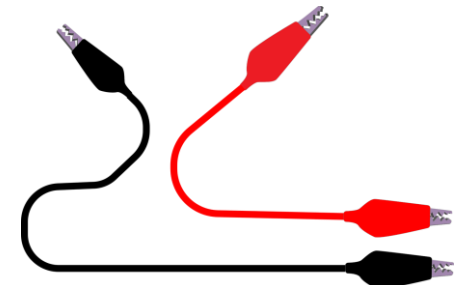
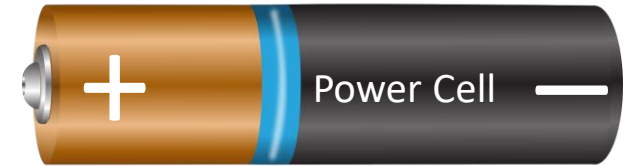
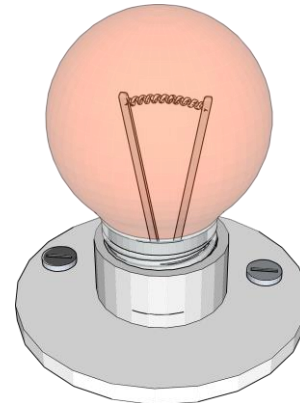
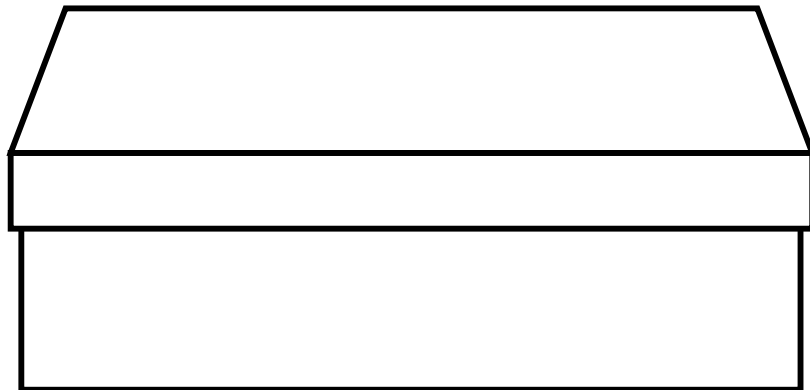
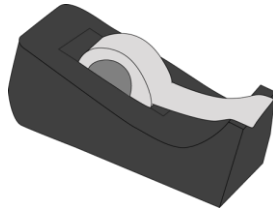
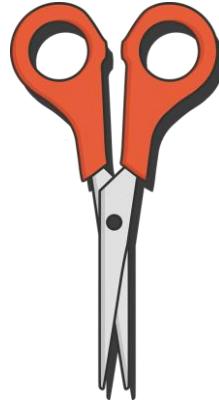
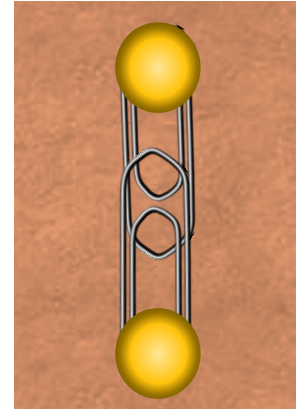
Box with lid

Pens

Ruler

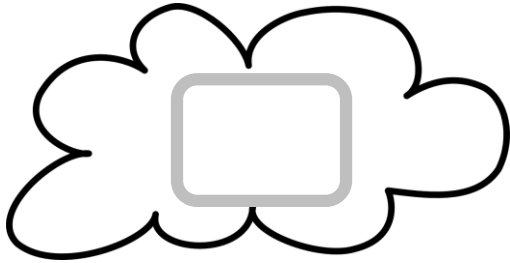
Pencil

Tweezers

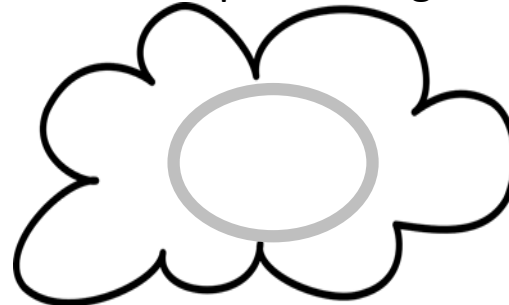


Lid of Box

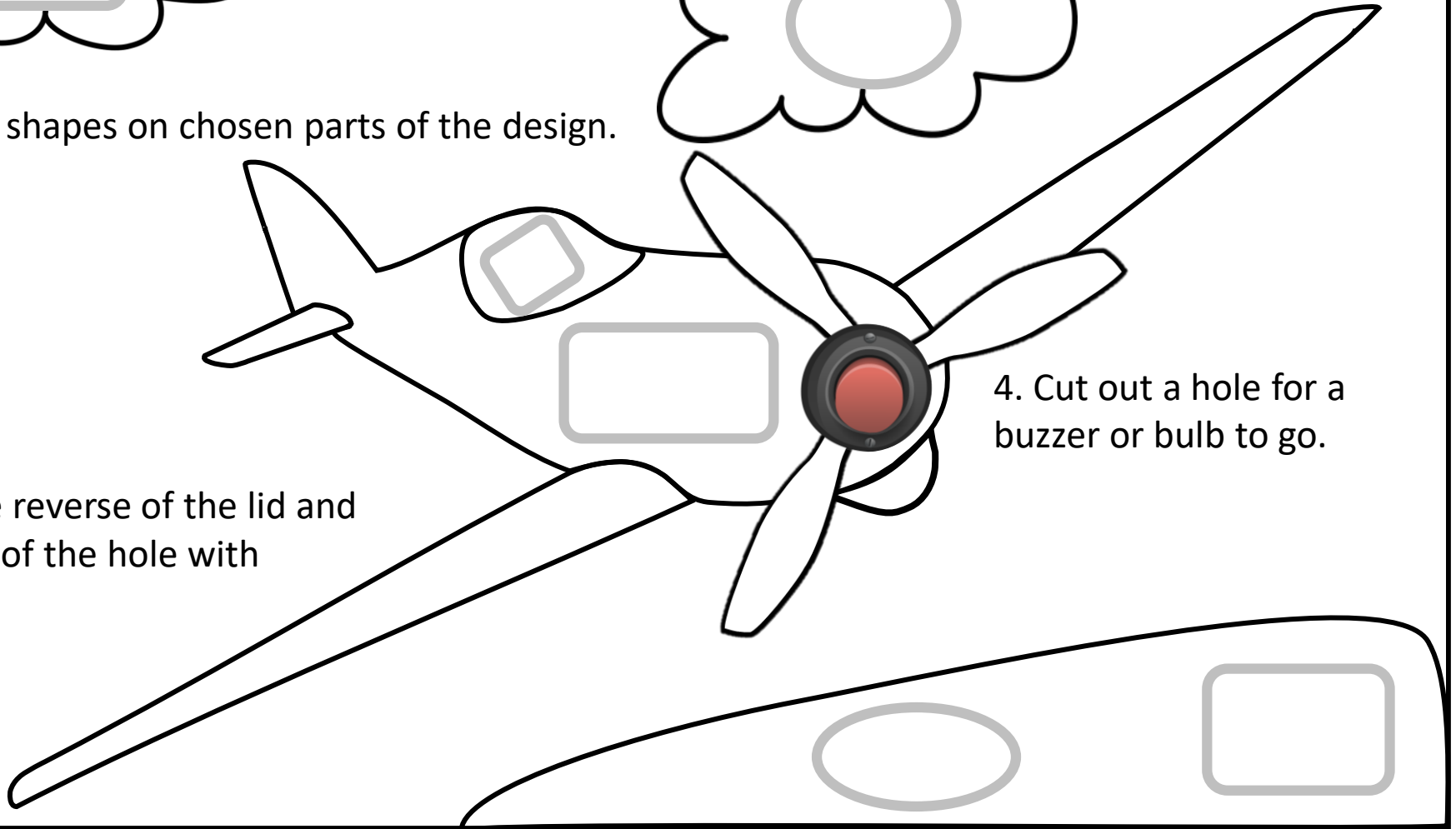
1. Draw a Spirit of Innovation inspired design onto the lid of the box.



2. Cut out shapes on chosen parts of the design.



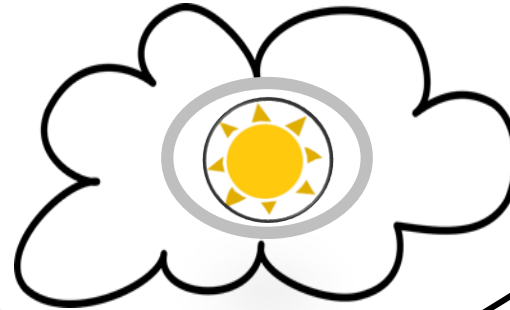
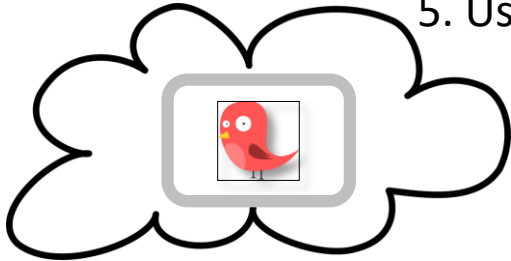
3. Line the reverse of the lid and the edges of the hole with silver foil.



4. Cut out a hole for a buzzer or bulb to go.

Lid of the Box

5. Using cardboard create small items to go beneath the cut out shapes in lid.



6. Connect the switch to the + battery.

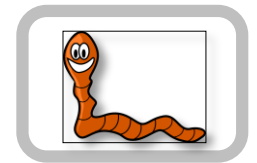
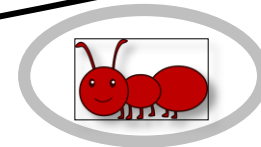
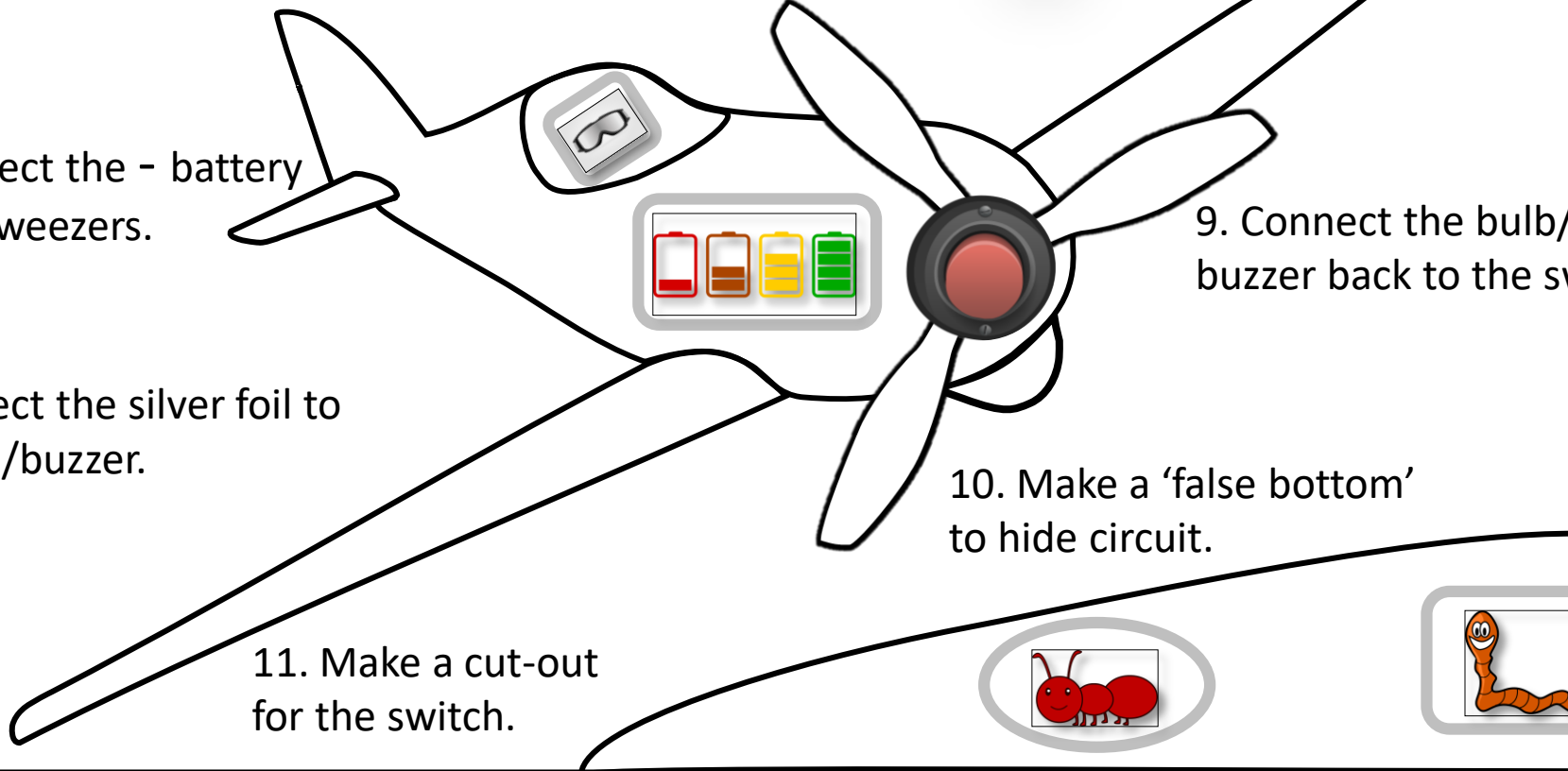
7. Connect the - battery to the tweezers.

8. Connect the silver foil to the bulb/buzzer.

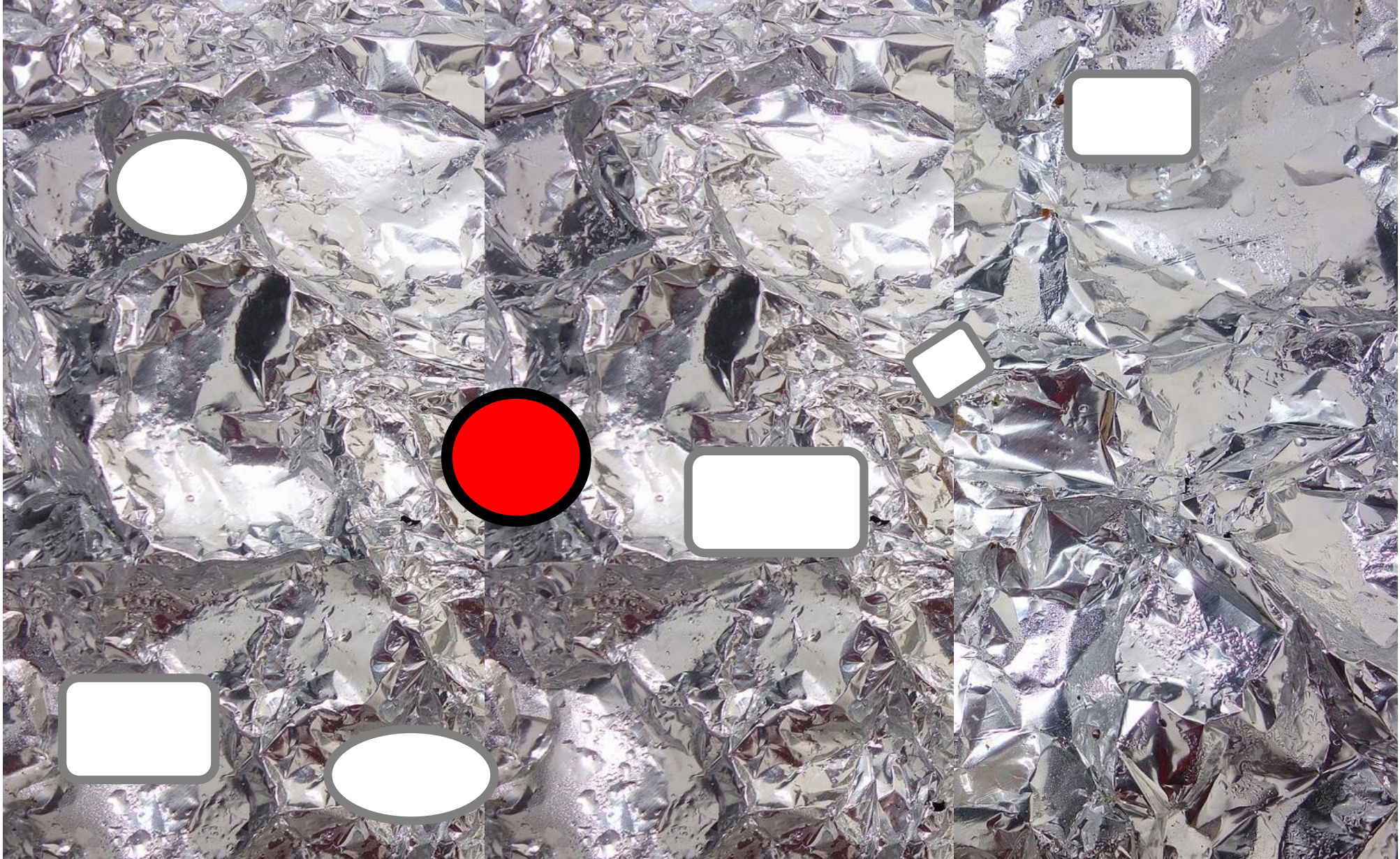
9. Connect the bulb/ buzzer back to the switch.

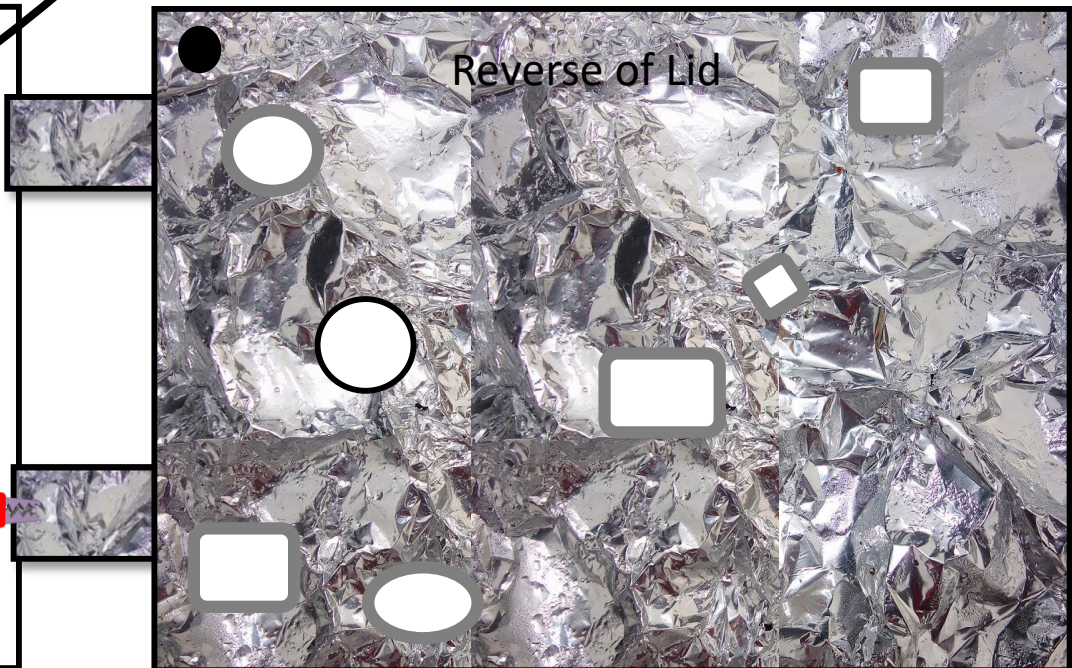
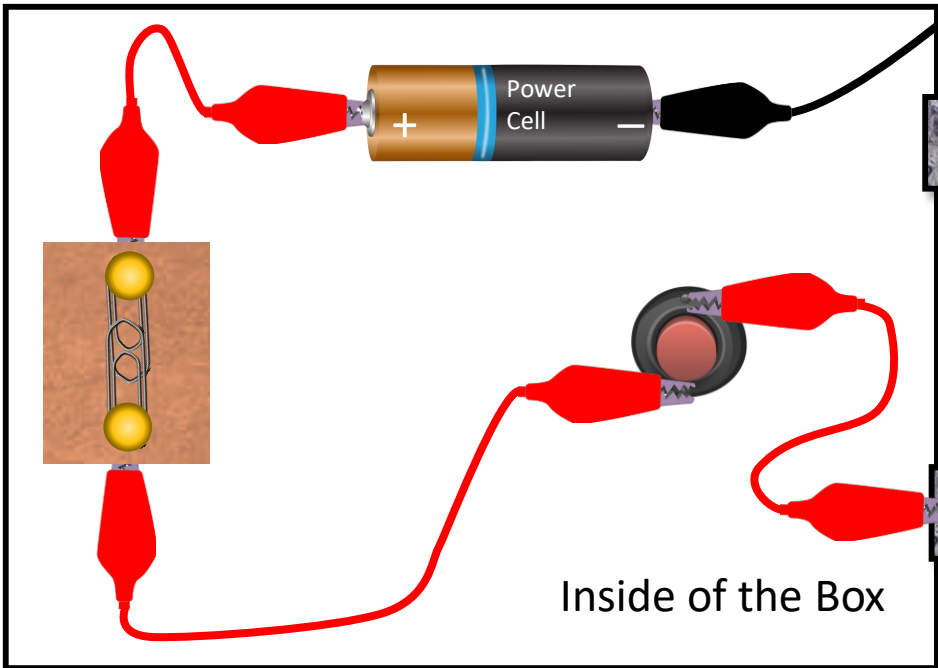
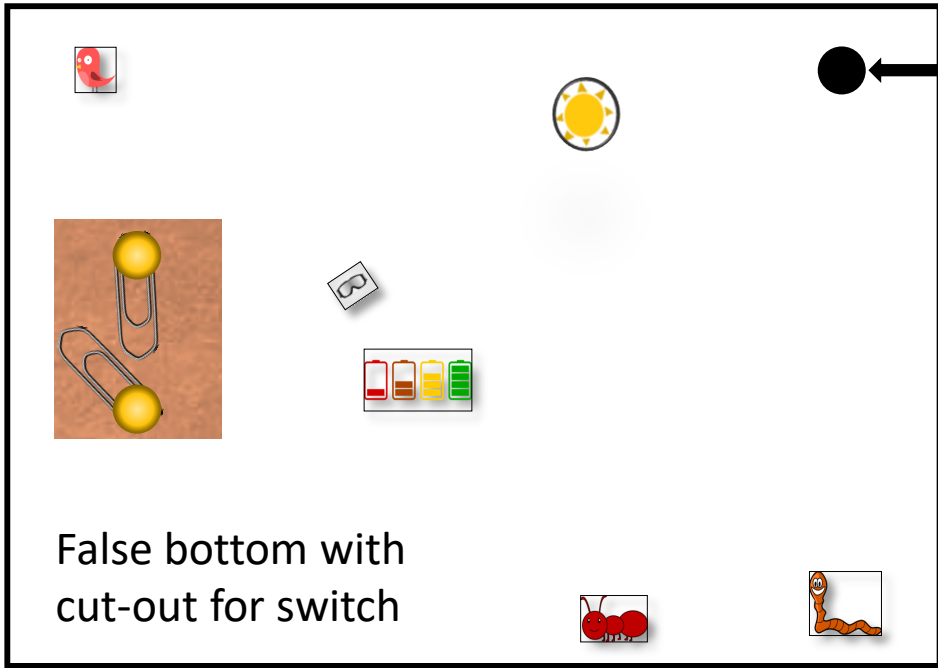
10. Make a 'false bottom' to hide circuit.

11. Make a cut-out for the switch.



The reverse side of the box lid

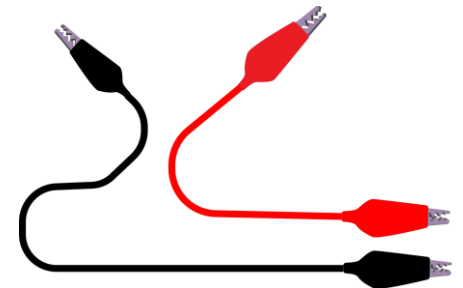
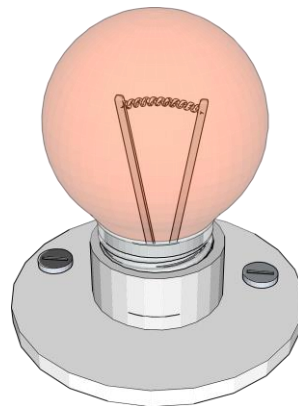
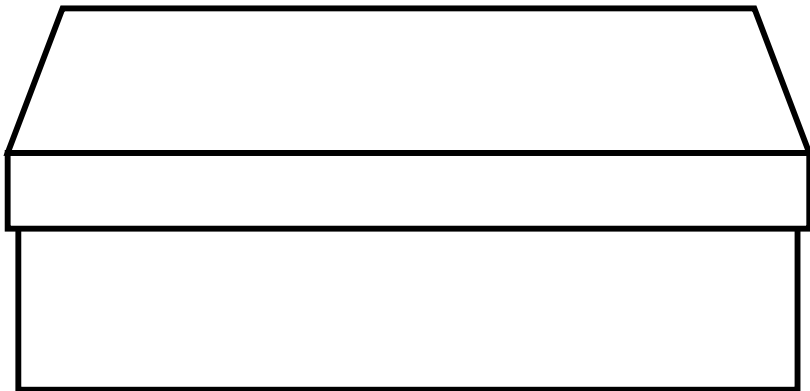
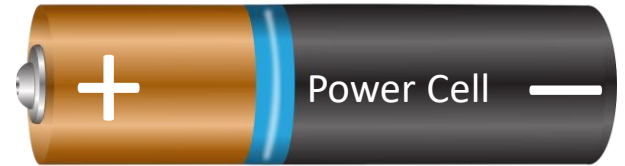
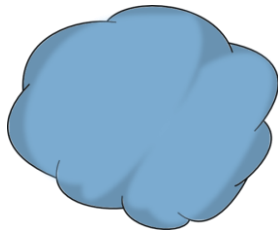
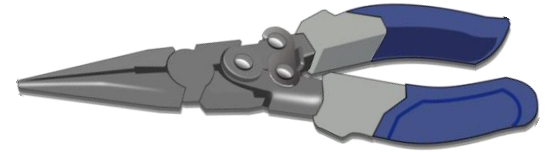
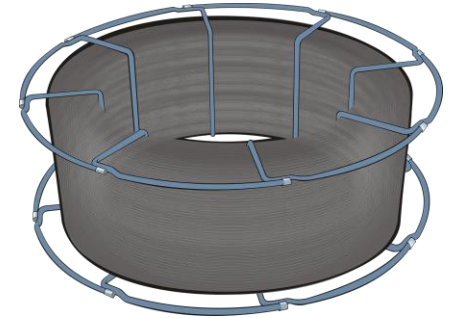
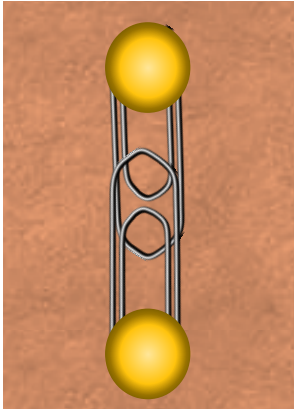


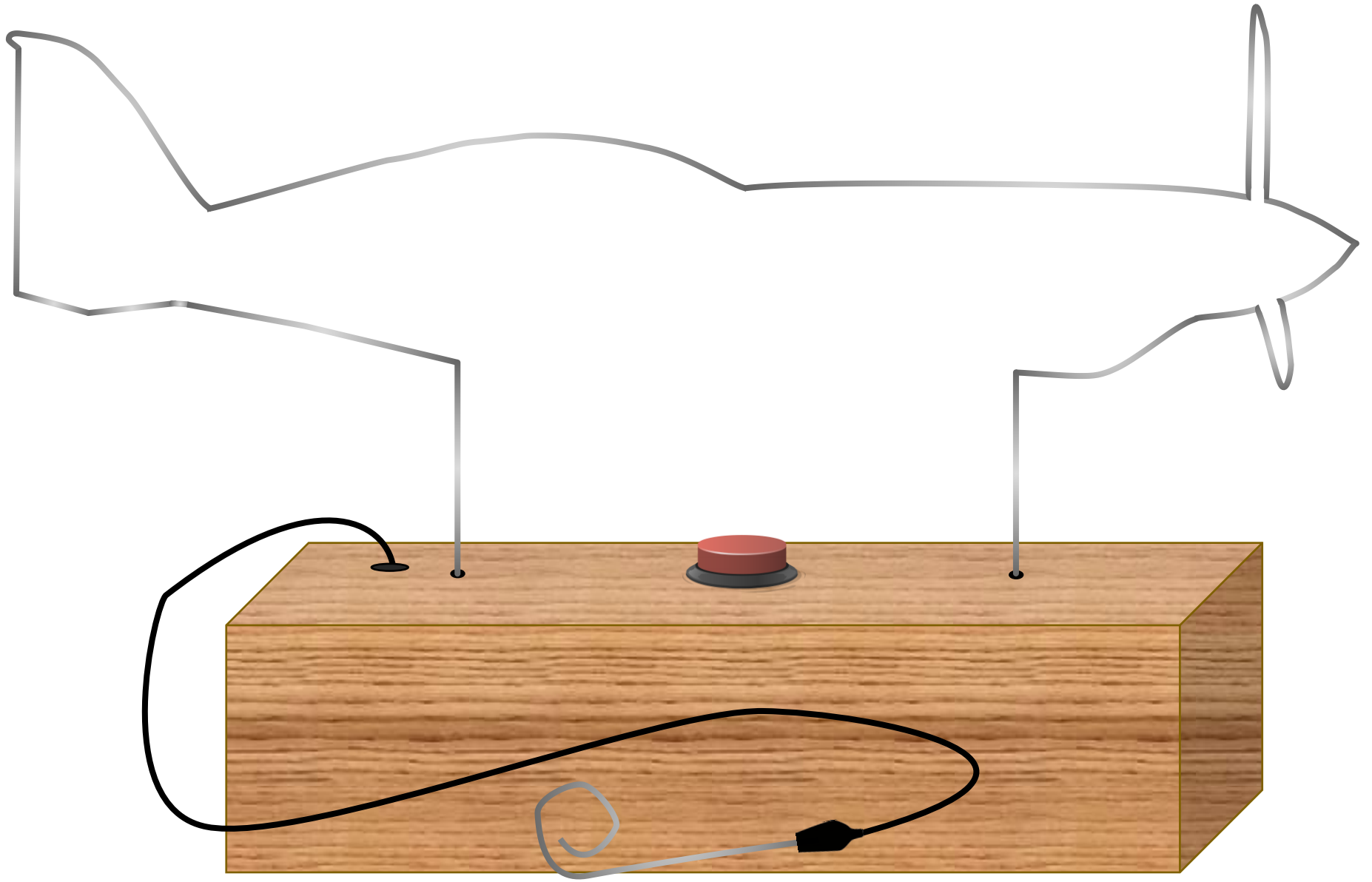


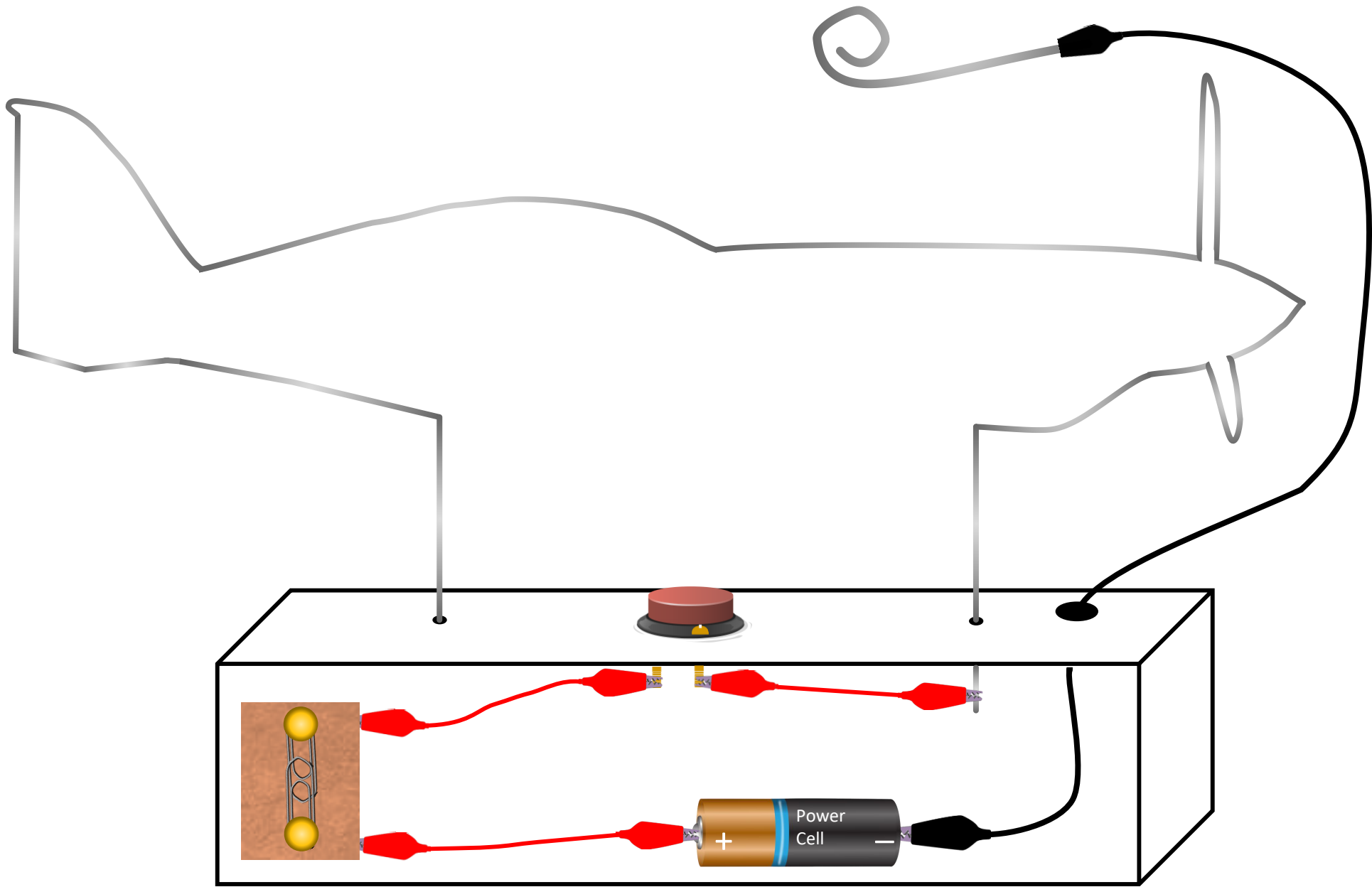
Materials:

Cardboard
Split pins
Paper clips
Blue tac
Pliers
Buzzer
Bulb
Thick wire

Battery
Wires
Box with lid
Pencil
Scissors







Year 4 Electrical Game Design Sheet

Introducing the
world's fastest
electric aeroplane

Project name	Spirit of Innovation
Max Power	750 kW
Top Speed	300+ MPH
Range	200 miles
Development	24 months

Collaborators



Name of Designer:



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