

Squishy answers

Squishy Basic Logic

Part 1: Make a basic circuit (Make sure they have their LED the right way around)



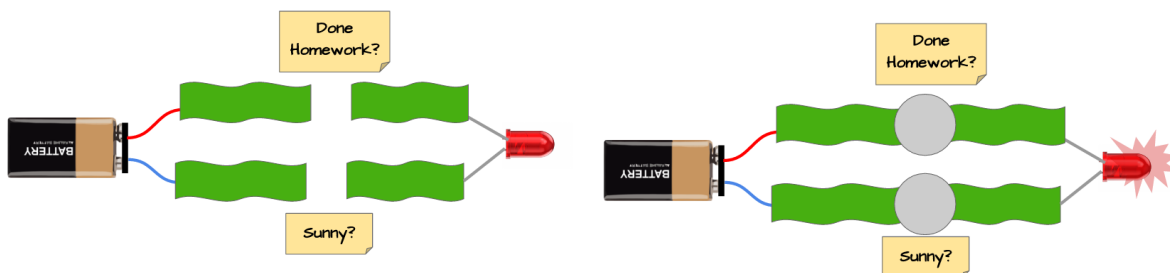
Part 2: Make an “If circuit”, has one switch, when token (tokens can/should just be more playdough that can be taken off like a token - depicted in different colour for visibility) is removed light turns off.

One arrangement:

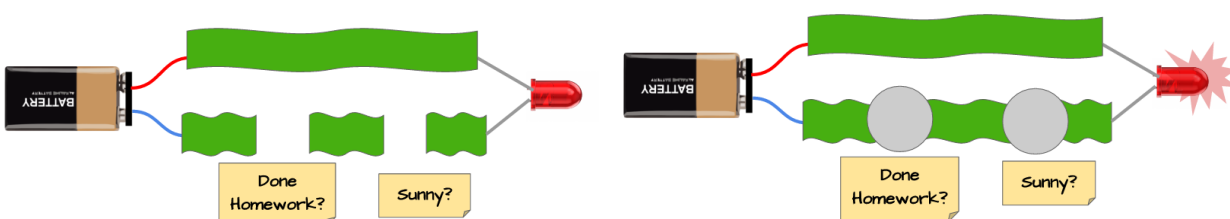


Part 3: “Make an “And Circuit”. Has 2 switches (these can be put literally any on the basic circuit. When both tokens are placed down the light turns on, if either or both tokens are removed the light turns off.

One arrangement:



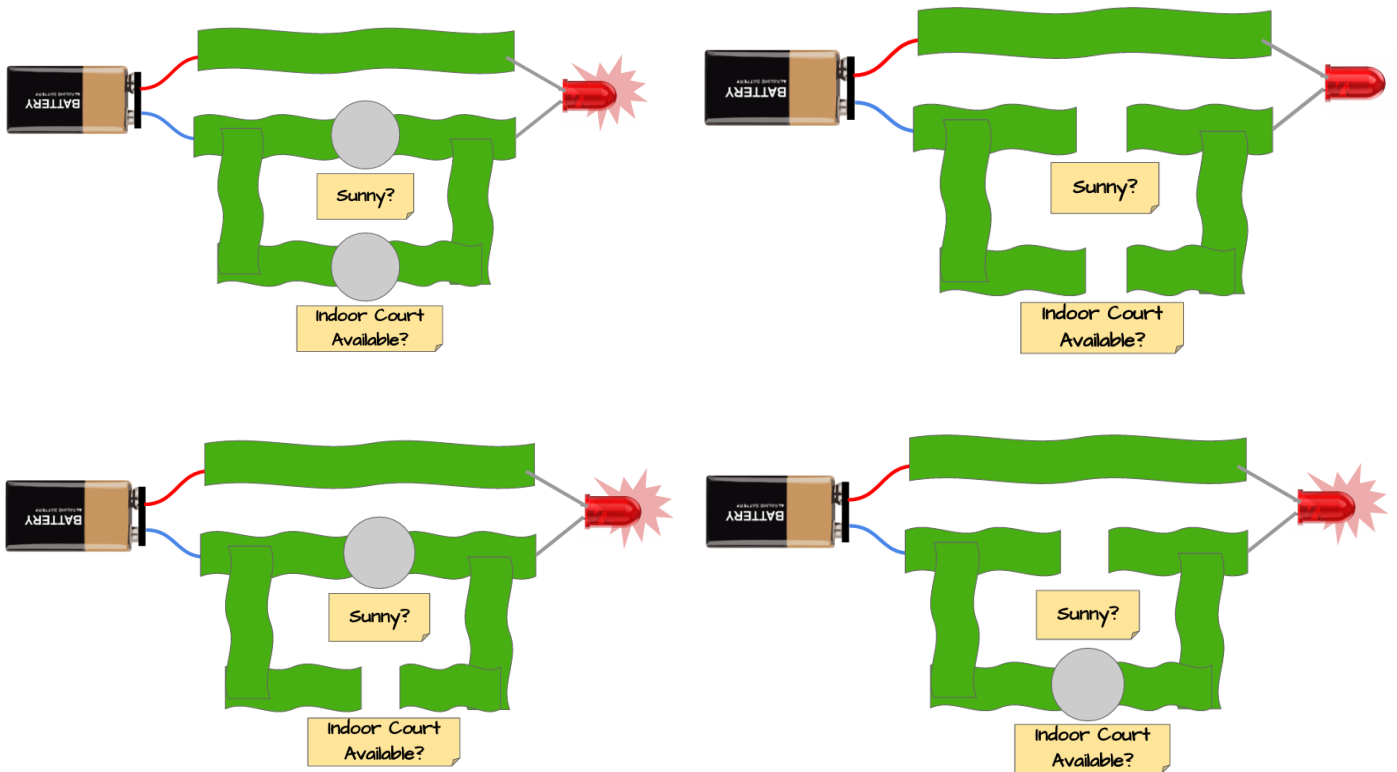
Another arrangement:



Part 4: Make an “Or Circuit”, needs 2 switches in parallel. Light is on if either or both tokens are placed down.

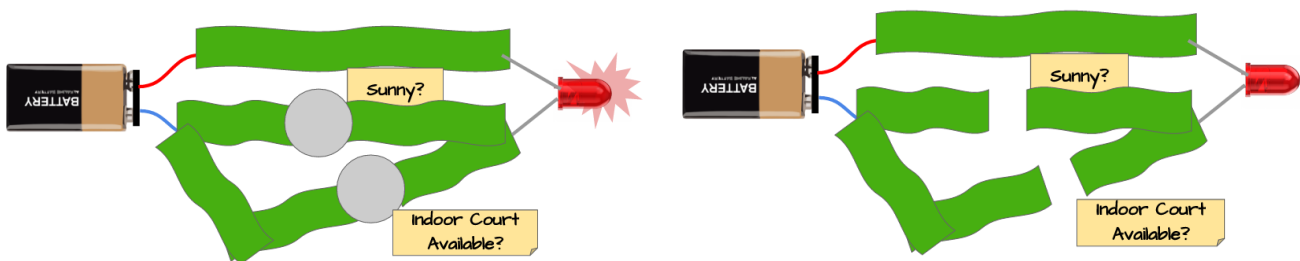
The second and fourth hints on the sheet are both suitable starting patterns

One arrangement:



Will work for any arrangement with 2 parallel paths that include the light.

Such as:



Part 5: Make a “Not Circuit”. Light should be on, UNLESS a token is placed down.

This activity involved creating a short circuit, only when the token is placed down.

