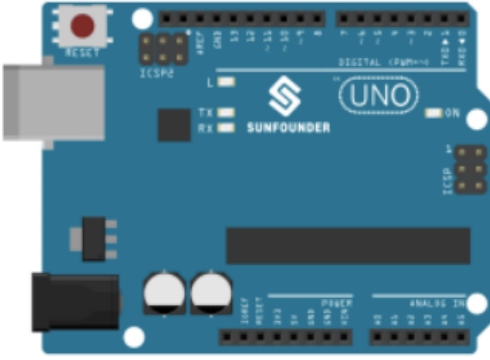
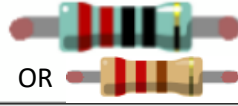







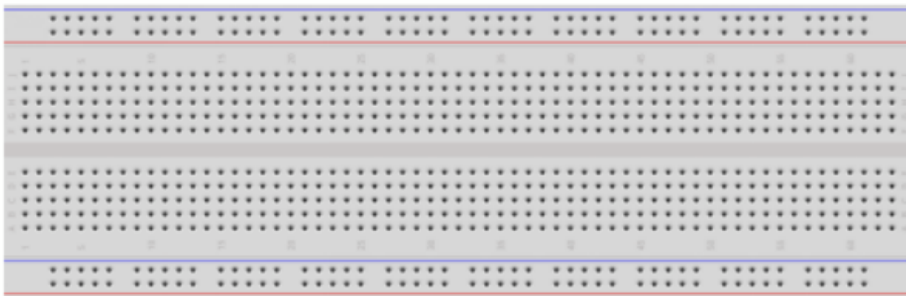
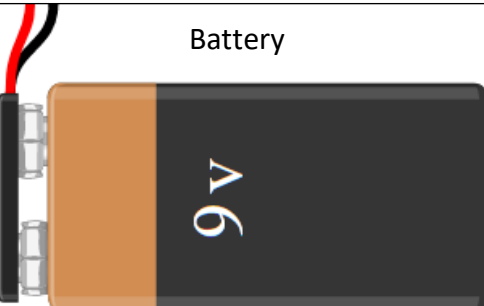
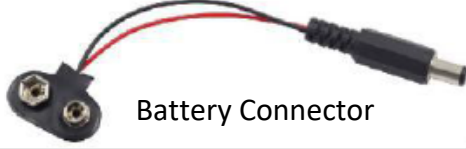



Game Show Buzzer

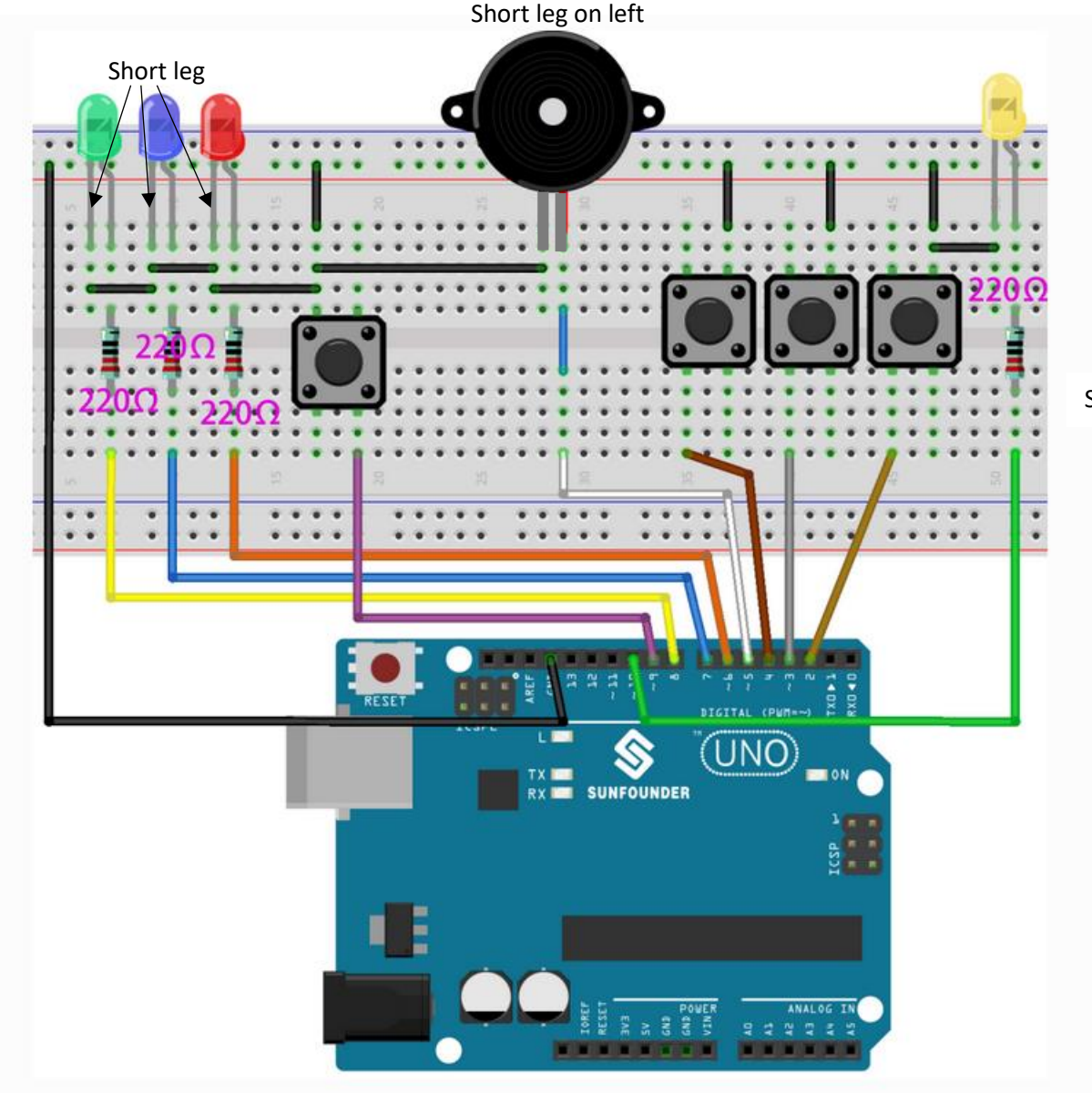
Today we will build a game show buzzer circuit. First you press the left button to activate the game show buzzer. Then there are 3 buttons for contestants to push as soon as they have the answer. As soon as a button is pressed, the buzzer buzzes and the corresponding light for the button lights up. If anyone else tries to push their button, nothing else will happen until the system is reset again with the left button. Our goal is to build a working circuit, and it is ok if we do not understand exactly how each part works. And as always, do not be afraid to ask questions—that is how we learn!

STEP 1: Parts Needed

Open your lab kit and find the following parts.

1 * R3 Board 		4 * Resistor (220Ω)  OR 		4 * Button 	
		1 * Active Buzzer 			
1 * Red LED 	1 * Yellow LED 	1 * Green LED 	1 * Blue LED 		
1 * Breadboard 					
Battery 			Battery Connector 		
Several Jumper Wires 					

STEP 2: Build the Circuit



STEP 3: Power the Circuit

Connect the battery to the microcontroller (UNO board).
(The code to run the circuit is already preinstalled.)

STEP 4: Play with the Circuit

Do all the buttons work? What color LED corresponds with which button? What happens if you try to hit a button after the buzzer goes off?

Did you enjoy the activity today?

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