Snap Circuits Student Worksheet

Name _____

For each question, fill in the blank or CIRCLE the correct answer.

In a **Series Circuit,** electrical components are connected one after another. There is only one path for the flow of electrons.

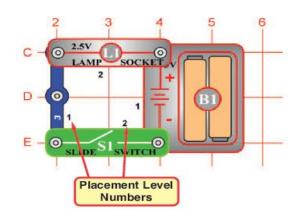
Build Project 1: Electric Light and Switch

1. This is an example of a _____ circuit.

SERIES OR **PARELLEL**

2. When the circuit is open, the light is ______.

ON OR OFF



Build Project 2: DC Motor and Switch

Never touch the fan while it is moving

3. Describe the energy transformation that is occurring when the circuit is closed.

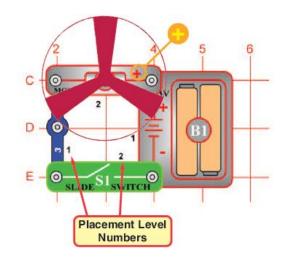
Electrical to ______ and _____.

On each side of the base of the motor, there is a + or a - symbol. This indicates the polarity of the motor. If the polarity is changed, the motor will spin in the opposite direction.

- 4. What direction is the fan spinning?

 CLOCKWISE OR COUNTERCLOCKWISE
- 5. Hold a post-it note near the fan. Is the paper pulled toward or pushed away from the fan?

PULLED TOWARD OR PUSHED AWAY



Build Project 11: Flying Saucer

Note the change in the position of the motor for this project.

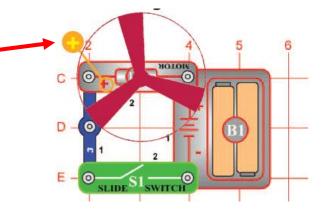
6. What direction is the fan spinning?

CLOCKWISE OR **COUNTERCLOCKWISE**

7. Hold a post-it note near the fan. Is the paper pulled toward or pushed away from the fan?

PULLED TOWARD OR PUSHED AWAY

8. When you turn the switch (S1) off, what happens to the fan?



9.		
	Explain why this is a series circuit.	5 6
		Mos 2
10.	The light is than when it was lit in Project 1. BRIGHTER OR DIMMER	E O SLIDE SI SWITCH
11.	What happens when you shut off the slide switch?	
12.	Explain why?	
		_
	rallel Circuit, there is more than one continuous path for the current divides into two or more paths before reco	
Build	Project 6 – Fan and Lamn in Parallel	
	Project 6 – Fan and Lamp in Parallel Why is this an example of a parallel circuit?	2 3 4 5 6