Guided Inquiry: Building Circuits – pHet simulation *Use phet → Circuit Construction Kit (DC only) Follow instructions from last inquiry or use link on website 1. Read pg. 551. Define circuit diagram: _____ 2. Complete Table 1. Please add this symbol \times to represent any load. (ie: if it's not a lamp or motor) Part of circuit and the symbol Sources of electrical energy Electrical conductor Switch Loads 3. Read Series Circuits on page 552. a) Define series circuit: b) Draw Fig. 2b - Series circuit diagram. c) Build this circuit with the phet Circuit Builder. Done? Show the teacher and get the teacher signature 3. Read Parallel Circuits on page 552. a) Define parallel circuit: _____ b) Draw Fig. 3b - Parallel circuit diagram.

c) Build this circuit with the phet Circuit Builder. Done? Show the teacher and get the teacher signature

4.	Series Circuit : Build Figure 6 on page 553. Show the teacher and get the teacher signature.	
	Can you get only 1 lightbulb on? only 2 on? all 3 on?	
	What do you notice if you take OUT 1 light bulb and then take OUT 2 lightbulbs?	
5.	Parallel Circuit: Build Figure 9 on page 553. Show the teacher and get the teacher signature.	
	Can you get only 1 lightbulb on? only 2 on? all 3 on?	
	What do you notice if you take OUT 1 light bulb and then take OUT 2 lightbulbs?	

Homework:

Pg. 554 # 1, 2, 4, 5, 6, 7