ESK 6.1/6.2- Circuits



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| **Requirements** | **POL Presentation** |
| 1. Give a new purpose for the old mansion that fits within the theme of your park
2. Draw out a circuit design for your mansion that includes lighting for every room (must have at least 5 rooms)
3. Have the current of the house calculated based on your knowledge of the voltage, current and resistance
 | * I can draw and design a series, parallel and combination circuit.
* I can predict which bulbs will be brighter or dimmer based on their circuit.
* I have determined the type of circuit in each room based on its purpose and function.
* I can evaluate whether the house will short circuit or not.
* I calculate the current, resistance and voltage of the circuit at any given location.
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**Powerpoint Guide:**

* Every slide should have more visuals than words.
* You should not be reading anything off of your slides
* You cannot put fully solved problems on your slide. You may write questions or variables, but you must be able to solve it on the spot.
* You may not use any notecards during your presentation.
* No more than **three** slides

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| **Physics POL Rubric – Semester 2 – 2018** |
| **ESK & Habit of Mind** | **Grading Expectations** | **POL Grade** |
| 4 Check = 4 | 3 Checks = 3 | 2 Checks = 2 | 1 Checks = 1 |
| **Habit of Mind:**Presentation Accountability | * Professional Dress, including shoes for the entirety of POLs
* Uses resources in the room to enhance presentation (whiteboard, projector, visuals)
* Utilizes time effectively during presentation (not too short/too long)
* Productive, punctual and respectful member of POL audience and panel
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| **Habit of Mind:** Presentation Quality | * Speaks clearly, towards the audience, with accurate pronunciation and presentation volume.
* Makes eye contact and maintains a calm, present demeanor.
* Body language is confident and professional.
* Has a neatly organized, well-planned explanation that is easy to follow.
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| **ESK 4.1/4.2****ESK 5****ESK 6.1/6.2** |

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| 4 | 3 | 2 | 1 |
| * Presents complete thought process of evidence to explain understanding of ESK.
* Can analyze mistakes and corrections, can answer prompted questions thoughtfully and thoroughly.
* Can apply multiple representations to show understanding of ESK without prompting.
* Presentation demonstrates a full and complete understanding of ESK
 | * Presents most of thought process of evidence to explain understanding of ESK.
* Can analyze mistakes and corrections, can answer most prompted questions.
* Can apply multiple representations to show understanding of ESK with some prompting.
* Presentation demonstrates a partial understanding of ESK
 | * Presents some of the thought process of evidence to explain ESK.
* Can analyze some mistakes and corrections, and can only answer some of prompted questions.
* Can apply multiple representations to show understanding of ESK with a lot of prompting.
* Presentation demonstrates a partial understanding of ESK
 | * Does not show thought process to explain ESK.
* Cannot analyze mistakes and corrections, cannot answer most of the prompted questions.
* Cannot apply multiple representations to show understanding of ESK.
* Presentation demonstrates an incomplete or no understanding of ESK
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| Pass No Pass |