Student: _____ Grade: _____

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Rubric: Flashlight Project

Electric Circuits Culminating Activity

Flashlight Project				
	4 pts	3 pts	2 pts	1 pts
Design	4	3	2	1
	Device fits in one hand and can be operated easily. Efficient, effective, and innovative design	Size and shape are reasonable. Stands up to normal use.	Relatively easy to use and handle. Some design errors make use tricky at times.	Difficult to use becau of size or shape. Fragile build makes normal use impossibl
Working Circuit	4	3	2	1
	Circuit responds to the switch properly; all parts of the circuit are connected securely.	Circuit may not respond to switch at all times, but it does have a working circuit. One connection may be loose.	Circuit may not respond to switch at all times, and is missing one part needed to make the circuit work properly.	Circuit does not respond to switch a all, and is missing parts
Knowledge	4	3	2	1
	Student's knowledge of circuits is obvious in design. Any malfunctions dealt with quickly and independently.	Student can independently fix most problems. Can explain in basic detail how the devices circuit works.	Can explain function of device with some guidance. Problems can be fixed with assistance.	Little to know knowledge of design function. Unable to f problems without assistance.
Durability	4	3	2	1
	Flashlight is extremely durable and can withstand shaking and being bumped around. It has a solid construction.	Flashlight is pretty durable. It may flicker a bit, but will remain on when subjected to shaking or bumping. It is constructed well.	Flashlight is somewhat durable. It is constructed fairly well, but could use extra support in some areas.	Flashlight is not durable at all. It wil not remain lit wher shaken. Flashlight is falling apart.
Appearance	4	3	2	1
	Flashlight is extremely appealing. Extra time and thought was put into making this flashlight look nice.	Flashlight is neat in appearance. Some effort was made in making the flashlight look nice.	Flashlight is neat. Basic steps taken.	Flashlight design is messy. Minimal effo taken to make the flashlight attractive.

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