Summary Table - Turn On a Light

GROUP 12 -

Phenomenon: Soccket Ball

Guiding question: How does playing soccer cause the ball to light?

Driving Question Board - Add new View others

Initial Model Final Model



Supporting phenomenon	Link to work	What we did	What we figured out	How does this connect to the Soccket Ball?
Happy / Sad Ball	Link	WE rolled the happy and sad ball on two different surfaces	The happy ball rolled farther than the sad ball on both surfaces	The “soccket” ball has to be made of a material that has to store more energy than it releases. Revision: outside ball is made of happy ball stuff and inside is sad ball stuff.
Magnet drop	Link	We dropped a magnet through tubes of different materials	The magnet moved slowest through the copper tube because it was the best conductor.	Anytime a magnet passes through a conductor, it produces a current which produces electricity
Flashlight	Link	We played with the flashlight to turn it on	The mechanical energy of the pumping causes a gear to make a magnet turn next to an electromagnet which produces an electric field and current that goes through a battery to make the flashlight light.	There must be some kind electromagnet inside of the soccket ball that creates the electrical current.This is the electrical source for the light.
Motor spin	Link	Electricity goes both ways using motors and generators	Electricity goes both ways using motors and generators	

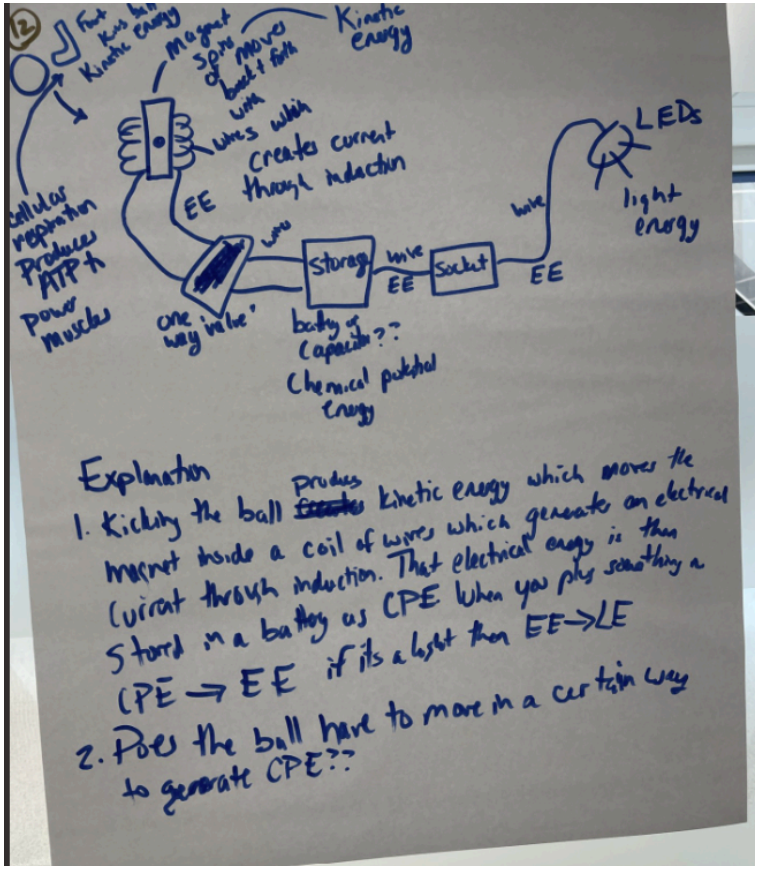
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Texas Power Grid	Link		Generator is the way to get energy	
Turn on a light	Link			

Draw a model of the soccket ball that answers the following question **How does playing soccer cause the ball to light?**	  

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Initial Model



Final Model

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Happy and Sad Ball - Back to summary table

Show your work below (i.e. text, model images, questions, data etc.)

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Magnet drop - Back to summary table

Show your work (i.e. text, model images, questions, data etc.)

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Flashlight - Back to summary table

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Motor Spin - Back to summary table

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Texas Power Grid - Back to summary table

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Turn on the light - Back to summary table

Show your work (i.e. text, model images, questions, data etc.)

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