

Summary Table - Turn On a Light

GROUP 12 - Conroe

Phenomenon: Soccer Ball

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

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[Initial Model](#)

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Supporting phenomenon	Link to work	What we did	What we figured out	How does this connect to the phenomenon
Wondertube	Link	Watched the video, asked questions about why the pompoms moved as they did.	Magnets connected the strings on the inside	We think this connects to the phenomenon because we think there is a magnet inside the ball.
Solar cat	Link	Shine light on solar panel, the cat head bobbed and tail wagged	Electromagnet is inside (magnet on pendulum attached to cat head, attached to bar that moves tail) solar panel attached to capacitor. Capacitor attached to coiled copper wire & magnet at the bottom of the pendulum. When the light shines, the capacitor turns electromagnet on. The electromagnet pushes the pendulum.	Possibly electromagnet & pendulum inside
Magnet drop	Link	Investigated different materials of tubes, different number of magnets, different widths of tubes.	Copper has to be all the way around the magnet or circling the magnet.	We think the copper has to be all the way around the inside of the ball or the copper is on the outside with the magnet

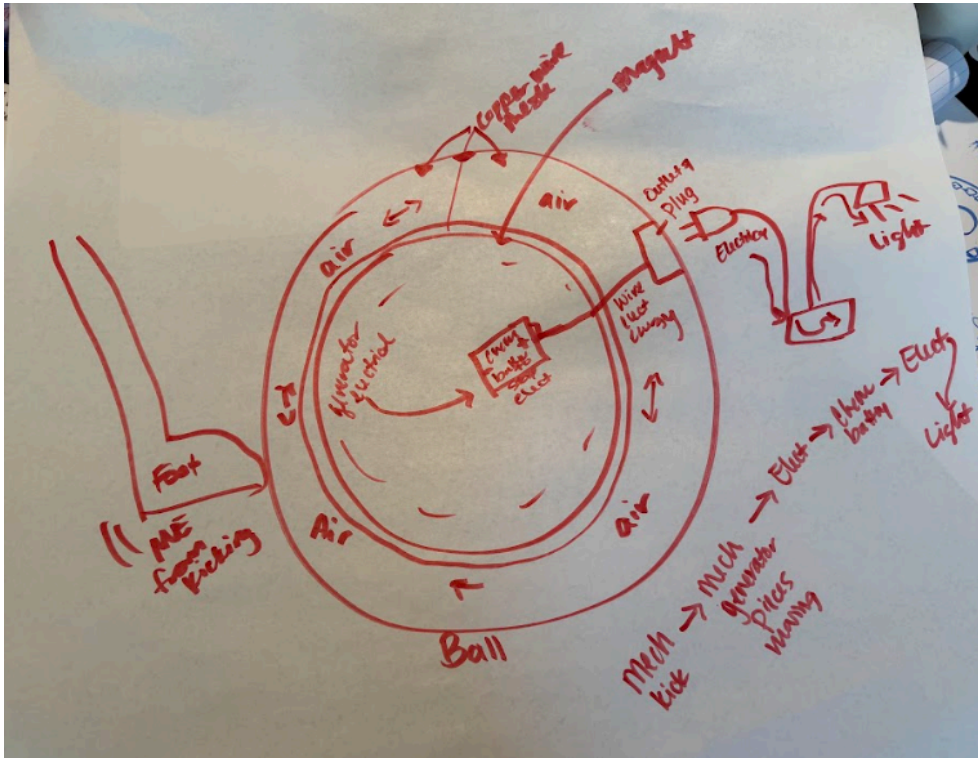
				spinning in the inside
Battery train	Link			
Motor spin	Link			
Turn on a light	Link			

Draw a model of the soccket ball that answers the following question

How does playing soccer cause the ball to light?



Initial Model



Final Model

Wonder Tube - [Back to summary table](#)

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

Solar cat - [Back to summary table](#)

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