

Sun Rise and Set

Create a moving model of the sun rising in the East and setting in the West.



Think Like an Engineer:

How can you show the sun rising in the East, setting in the West, and moving across the sky?

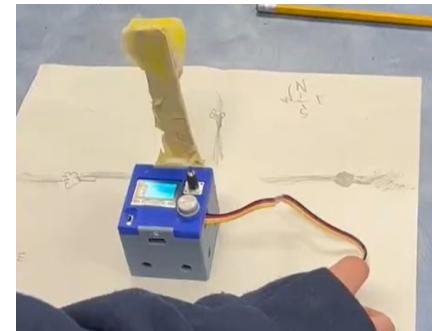
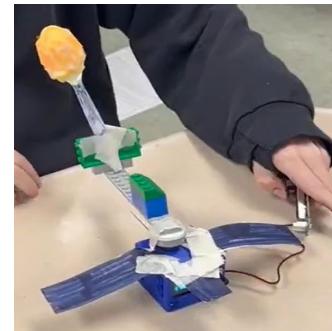
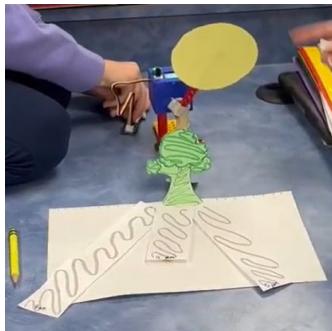


Think Like an Artist:

What color is our sun? What shape is it? How can you accurately represent the sun in your model?

EXAMPLE IDEAS

What are some different ways to represent the sun moving across the sky? Does the sun move? Is the sun still and the Earth is moving?



Flip over for more details!



MARYVILLE
UNIVERSITY



Intermediate

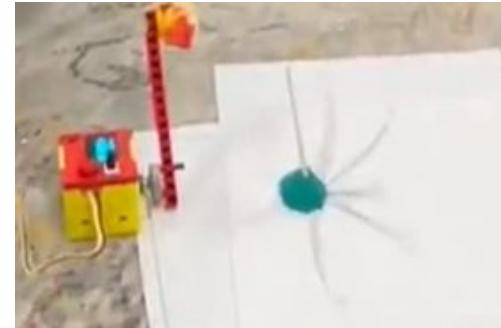
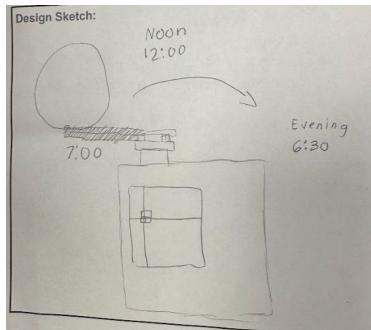


Innovative Creations

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BUILD IT!



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CODE IT!

Code Snippets and explanations

Code 3-5 data points to show different times of the day.

The first data point should represent the time of sunrise.

The last data point should represent the time of sunset.

Modify It

- Add an object such as a bench or a tree and include accurate shadows for different times of day.



CHALLENGE YOURSELF

Present this model to another group of your peers. Explain how your model shows the sun rising in the East and setting in the West. Explain the way the sun's movement throughout the day affects the shadows length and direction.