

8th Grade Science Space Choice Board

There are nine activities to choose from, pick as many as you wish to explore!

Virtual Lab: Solar System Size & Distance

In this Virtual Lab you will **investigate** the vast distances between the planets and the relative sizes of the planets!

http://www.glencoe.com/sites/common_assets/science/virtual_labs/E28/E28.html

Follow the procedures on menu along the left side of the virtual lab.

In your compbook, **record your data** by using the data table linked below:

https://snohomishschoolistrict-my.sharepoint.com/:w:/g/personal/erika_robbins_sno_wednet_edu/EZ0LDQaMSBJKIHTb3UFCXq8BquBL2CmgPRTwoAVvqAXV2g?e=3EmNcl

Return to your Original Model

In the beginning of our unit, you drew a model to explain how the solar system and its objects affect life on Earth.

Using your new knowledge from class, **what would your model look like now?**

Click the link below to access your new model:

<https://share.nearpod.com/vsph/t4PWR7OrMu>



Create a Scale Model

Create a **physical scaled model** of the **planets** in our Solar System. Choose to create a physical model **using objects around your home** showing the scaled sizes OR sizes of the planets in our Solar System. Your model should include:

- The Sun
- Mercury
- Venus
- Earth
- Mars
- Asteroid belt
- Jupiter
- Saturn
- Uranus
- Neptune
- Dwarf planet Pluto

Take a **picture** or **video** of your model and **explain the scale** used to create the model. Send it to your teacher!

Share what the scaled value in your model represents in **real Solar System measurements** and if there is anything **NOT to scale** in your model.

Gravity Exploration

How much would you weigh on other planets and the moon? How far could you jump on other planets and the moon?

Complete the investigation linked below to find out!

https://snohomishschoolistrict-my.sharepoint.com/:w:/g/personal/erika_robbins_sno_wednet_edu/EerJRAKLuxlvA1_6Y74TWgBOpyF1szEOchFG3qhdIgzW?e=Wjrisl

Create your own Star Wheel!

Want to know what stars you see up in the night sky? You're in luck! **Create** your own Star Wheel!

Click the link below to download the material needed for making your Star Wheel.

https://snohomishschoolistrict-my.sharepoint.com/:b:/g/personal/erika_robbins_sno_wednet_edu/EdW1ffCqB75MifqRLrZ9kBJToUyIkSgnqyuV5OaplumA?e=C4q00a

Click the link below to see instructions on how to construct and use your Star Wheel:

<https://youtu.be/RzxsoCql2k>

Answering Your Questions About COVID-19

Select and **read** one or more of the following articles from Newsela.

Click the links below to view each article:

- **Speeds Up for Vaccine Against the New Coronavirus**

https://snohomishschoolistrict-my.sharepoint.com/:b:/g/personal/erika_robbins_sno_wednet_edu/EUuhIUQ-3NhGrMixrgmp5AcBRfGtMQMdcWCQpe0zsHf5Bw?e=ceYChs

- **Your Most Urgent Questions About the New Coronavirus**



Once you have made your Star Wheel, **teach your family how to use it!**

In the night sky **locate:**

- Big Dipper (Part of Ursa Major)
- Little Dipper (Part of Ursa Minor)
- Polaris (North Star)
- Orion (including Rigel and Betelgeuse)
- Canis Major (including Sirius)
- Gemini (including Castor and Pollux)
- Pleiades (also known as the Seven Sisters)

https://snohomishschoolistrict-my.sharepoint.com/:b:/g/personal/erika_robbins_sno_wednet_edu/EeRFfbr7BIFLkb_kfvT2SsBecFWCjEFnex0xRompn2IGQ?e=tquC84

After you have **read** one or both of the articles, **respond** to the following questions in your compbook:

- What was something new you learned about COVID-19?

Choose one of the following:

- Explains the **central idea** of the article using at **least two details** from the article to support your response.

OR

- Choose an event or phenomenon described in the text. **Explain the causes and effects** of your chosen topic, using details from the text.

NASA spacecraft arrives at ancient asteroid, its first visitor.

After a two-year chase, a NASA spacecraft has arrived at an ancient asteroid!

Click the link below to open the article:

https://snohomishschoolistrict-my.sharepoint.com/:b:/g/personal/erika_robbins_sno_wednet_edu/ERmafJwbc8dOt4BP8WBxWXQBw8nZqVbWx1tylhAO7GCFKA?e=xAeocJ

After **reading the article**, write a short paragraph that explains the **central idea of the article**. Use at least **two details** from the article to **support** your response.

Can You Explain the Phenomena?

Using your prior knowledge, **explain** what is happening in the **phenomena** image.

Click the link below to access the phenomena:

<https://share.nearpod.com/vsph/SDdApBnNMu>

You may type or audio record your thinking!

- What do you think this is a picture of?
- How does this phenomena occur?

Lunar Lander Simulation Game

Can you avoid the boulder field and land safely, just before your fuel runs out, as Neil Armstrong did in 1969? Let's find out!

Click the link below to access the Lunar Lander Simulation:

https://phet.colorado.edu/sims/lunar-lander/lunar-lander_en.html

Click on the link below to download the instructions and data table for this game:

https://snohomishschoolistrict-my.sharepoint.com/:w:/g/personal/erika_robbins_sno_wednet_edu/EdGuk8MSHKZOtn4e6IEijs8Bm48PvToGAFGxEMMncPYgmQ?e=FSYI6p