8th Grade Science
Earth in Space Choice Board

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

Down to Earth – The Overview Effect Click on the link below to access the digital series "Down to Earth – The Overview Effect" https://www.nasa.gov/mission_pages/station/main/index.html In "Down to Earth - The Overview Effect" NASA astronauts discuss a shift in worldview from their time living and working in space. Select one episode to **watch** and **record** the following: • What was the astronauts change in perspective (different way of thinking about Earth)? • What does this episode make you curious about? • What question(s) would you like to ask the astronaut?	**Spacecraft Paper Models** Right now, there are several spacecrafts exploring our Universe. You can **build** paper versions of them right here on Earth! Paper modeling - or card modeling - is the art of constructing things with only colored, cut and folded pieces of paper. **Remember:** Spacecraft construction is a team activity. Get some family members to pitch in on the mission. Now pick a ship to start your space fleet! **OSIRIS-Rex (easy build):** https://snohomishschooldistric-my.sharepoint.com/:b:/g/personal/erika_robbins_sno_wednet_edu/EbqaMFnsPyFNjNCW1wQMgq0BxMAj3guBjzROod5Z7vOdRg?e=bvwUXM **Kepler (more challenging build):** https://snohomishschooldistric-my.sharepoint.com/:b:/g/personal/erika_robbins_sno_wednet_edu/ETHtGcaKgzpKv3nrQDKmHP0BYpzG6FEWm7QCPJderm3gIw?e=gr7GVw	**Who's that Scientist?** Read about the life of an important scientist, engineer or researcher in the field of astronomy. **Create** an **informational poster** that shares the following information: • Who was the scientist you read about? • When and where were they born? • What was their major scientific contribution? • List the events that surround their discovery. • List some other interesting events in the scientist's life. • Why do you think that it is important to learn about this scientist? **Ideas for the week:** Edwin Hubble Clyde Tombaugh Neil DeGrasse Tyson Stephen Hawking Carl Sagan
Legends of Learning **Seasons & Eclipses Pre-Learning!**  Explore the seasons and eclipses by visiting the website, "Legends of Learning". • Click on the following link to get started:	**Review of Cross-Cutting Concepts:** Click the link below access a poster to review the concepts that all good scientists use: http://aae.lewiscenter.org/documents/AAE/Science/NGSS/Crosscutting_AAE_Poster.pdf After reviewing the poster, think back to all the content you've learned in Science this year and give an example of each of the following concepts: **1. Patterns**	**Is Pluto a Planet?** **Interview with Dr. Brown** Dr. Brown has been called the "Man who Killed Pluto". **Find out why** by watching "Conversations with a Scientist: Astronomer Michael Brown" at the link below: https://youtu.be/PrOTDUVY-Mk To **gather a deeper understanding** of the redefinition of Pluto, dwarf planets, and our changing view of the Solar System, answer the

https://app.legendsoflearning.com/login/ 1. Log in as a student 2. Play a teacher's playlist 3. Enter the following teacher code: **CALVIN1** You will need to create an account and design your avatar. Be sure to use a password that you will remember (*write it down for quick reference*)	**2.Cause and effect** **3. Scale, proportion, and quantity** **4. Systems and system models** **5. Energy and matter** **6. Structure and function** **7. Stability and change**	following questions linked below as you watch the interview with Dr. Brown: https://snohomishschooldistric-my.sharepoint.com/:w:/g/personal/erika_robbins_sno_wednet_edu/EcQLfkAqXXFAklRKvU9uAYIBd7qJYA0c7LnVVTjL3-eA1Q?e=14grBg
Can You Explain the Phenomena? Part 2! 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/x0mK2ClVLu You may type or audio record your thinking! • What do you think this is a picture of? • How does this phenomena occur?	**Space Origami: Make Your Own Starshade** Imagine trying to photograph a planet from trillions of miles away. Now imagine that planet is in another solar system, where the bright light of its parent star is outshining everything around it. This is what new technology from NASA is trying to do – capture the first images of planets outside our solar system – and you can **make** your own **model of the spacecraft** using origami! Click the link below for instructions on how to make your Starshade: https://share.nearpod.com/vsph/hemVmfZ3Lu Click the link below to download your Starshade template: https://snohomishschooldistric-my.sharepoint.com/:b:/g/personal/erika_robbins_sno_wednet_edu/EZk8dfhekHJCkd5hD6Tz7VoB1SDOiuZ_TCiecCjOuLYxxQ?e=6oaeXk	**Explore Mars: A Mars Rover Game** Always wanted to cruise around on the surface of another planet? Well, you're in luck! In Explore Mars, you will be driving a rover on Mars and collecting information about Martian rocks. Click the link below to access the Mars Rover Game: https://spaceplace.nasa.gov/explore-mars/en/ When **finished**, **share** with your teacher how many **research points** you collected!