

Galaxy play-doh

OVERVIEW

Students will learn about space, including the properties of a star, galaxy and the Milky Way all while creating their very own galaxy play-doh.

TOPIC AREA(S)	GRADE LEVEL
Astronomy	5/6

QUESTIONS PRIOR TO THE LESSON/GETTING EXCITED

- What are some things found in space?
- What is a star and why are some brighter than others?
- What is a galaxy?
- What are some properties of the Milky Way?

BACKGROUND INFORMATION FOR INSTRUCTORS (INCLUDE QUESTIONS W/ ANSWERS)

Some things found in space include, planets, stars, the moon, the sun, galaxies, the Milky Way, Asteroids and more!!!

A star is a giant sphere of very hot gas made up of mostly hydrogen and helium. When stars get very hot and bright this occurs through a process called nuclear fusion. This is when hydrogen burns and turns into helium. An example of a star is the sun, and this is because it is a giant ball of extremely hot gases. Some stars are brighter than others and this has to do with the star's proximity to us. Therefore, the closer the star is to us the brighter it will appear but the further away a star is the less bright it will appear.

A galaxy is a huge collection of gas, dust, stars and their solar system. It is held together by gravity. Our galaxy is called the Milky Way.

The Milky Way is composed of billions of stars. It is a spiral shaped galaxy with a central bar shaped structure composed of stars. Its distance is about 100 light years across and 1 light year equals approximately 9.5 trillion kilometres. The Milky Way is full of dust, gas and in the center is a galactic bulge. Tucked in the very center is a giant black hole billions of times as large as the sun.



RELEVANCE TO THE CURRICULUM				
Grade 1 and 2	Grade 3 and 4	Grade 5 and 6	Grade 7 and 8	
Needs & Characteristics of Living Things Growth and Changes in Animals Materials, Objects and Everyday Structures Movement Energy in Our Lives Properties of Liquids and Solids Daily and Seasonal Changes Air and Water in the Environment MATERIALS (SPECIFY M -1 1/2 cups of flour -1/4 cup of Salt -1 Tbsp Cream of tartat - 2 Tbsp Vegetable oil -3/4 cup of Boiling wat -Food colouring -Wooden spoon (or sou -Gloves -Parchment paper -Butter knife	Growth and Changes in Plants Habitats and Communities Strong and Stable Structures Pulleys and Gears Forces Causing Movement Light and Sound Soils in the Environment Rocks and Minerals	Human Organ Systems Biodiversity Forces Acting on Structures and Mechanisms Flight Properties of and Changes in Matter Electricity and Electrical Devices Conservation of Energy and Resources Space	Interactions in the Environment Cells Form and Function Systems in Action Pure Substances and Mixtures Fluids Heat in the Environment Water Systems	
	NS			
Be careful with the boiling water				

PROCEDURE

1. Mix all 5 ingredients together, the flour, salt, cream of tartar, vegetable oil and boiling



water

2. Mix until the dough comes together then flip it out of the bowl and knead with your hands

- 3. Divide into 2 or 3 pieces
- 4. Add the different colours of food colouring to each dough section
- 5. Roll dough into long pieces and braid it (or mix the colours together in another way)
- 6. Enjoy playing with your galaxy play-doh!

REFERENCES

https://myhomebasedlife.com/galaxy-play-dohrecipe/?utm_medium=social&utm_source=pinterest&utm_campaign=tailwind_tribes&utm_content= tribes&utm_term=355513114_11278848_398490

