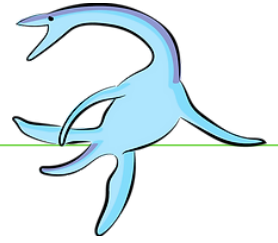




SEDIMENTARY FOSSIL CAKE AND ORIGAMI

Grades K-8



FOSSIL CAKE

Students will make their very own sedimentary fossil cake.

Optional: Grades 4-8 can make an origami chicken.

GUTEN TAG!!

5 min

Guten Tag is German for hello!

Greet your students. Be friendly. Use their name, ask a question, give a high five, or thumbs-up! Take roll. Mark down which students took a snack and tally how many snacks were given out.

SNACK / FREEPLAY

30 min

Enjoy Free Play:

Students will have their snack and enjoy time to free play.

STORY TIME

15 min

Read the story:

Read the story of the day. Older students may choose to read their own books.

STEM TIME

50 min

Grades K-8: Fossil Cake

We will learn how sediment is either deposited on land or underwater and how the fossils in the sediment help geologists know this. Students will construct their own mini cake. Students get to make their own cake with "fossils and sediment" layers.

Say- "Fossils form in sedimentary rocks. Sediment is another word for small rocks or pieces of shell or sand. Your dry pudding is like the sediment. When water flows through the sediment it cements it together. Notice what happens when you pour water into your pudding mix. As these layers of sediment are buried they dry and harden into rock. Some layers are harder than others, and will erode differently. As you create your fossil cake your oreo cookie layer will be different from your pudding layer and might have different fossils inside. Have fun cooking up this sedimentary rock model!"

Instructions:

1. Organize students into groups and challenge them to carefully follow the instructions on the back of the pudding box. Make sure to have enough pudding boxes to make pudding for everyone.
2. Set out the supplies: Cups, spoons, and Ziplock bags, as well as pudding, cookies, and a variety of candy or dried fruit "fossils" that the students can sprinkle into each layer of sediment.

3. Enjoy!

Materials:

- Pudding (chocolate and vanilla)
- Oreo cookies
- Ziplock bags to crush the cookies
- Cups for each student to make their own
- A variety of candy or dried fruit to use as fossils
- Spoons
- Bowls to mix pudding



STEM TIME

50 min

Materials:

- 6x6 Origami paper
or paper cut into 6x6 squares
- Coloring utensils
*Optional-
- Feathers
- Glue

SPORTS / GAMES

25 min

* Older students may choose to practice their sport instead of playing the game of the day.

Materials:

- Ropes
- Buckets
- Balls
- Cones
- Other items that may work for this game

HOMEWORK / FREEPLAY

20 min

CLEAN UP / DISMISSAL

5 min

Grades 4-8: Make an Origami Chicken

Students will get to make an origami chicken.

Instructions:

Have the students follow along with the Origami Chicken- Modern Day Dinosaur video:

<https://youtu.be/SocFTgbzMs8>

Raptor Races

Players will race as raptors as they go through obstacle courses.

Instructions- Set up two identical obstacle courses spanning about the length of a basketball court. Organize players into two teams and have them line up next to each other. Match players up with opponents of similar size and ability. Two players will race at a time as raptors to make it from one end of the obstacle course to another. This game can be as creative as the STEM Coach wants it to be. They can run, leap, jump over, run around, army crawl through, and even skip or walk backwards through different parts of the obstacle course. As two raptor racers make their way through to the half point, two more racers may go. Once all racers have made it through, the game may begin again if the STEM Coach decides with re-organized lines.

Instructions:

Allow your students some homework time. If they need help let them know you can help them. If they do not have any homework they can have some reading time, or they can have free time to go outside and play.

Clean up/pack up/dismissal

Clean up, pack up and practice lining up.

