ACHIEVE
Activities for the Week of 7/7-7/9

If you have any questions, please contact the lead teacher for the week:
Mrs. Ulsh: mmulsh@pgasd.com
OR **text @achievepga to 81010** to talk to the lead teacher and get Achieve text messages through Remind.
Click here for full directions on how to sign up for Remind!

Please note that all Achieve activities are optional and do not need to be turned in!

Tuesday

Activity # 1: Digging For Fossils/Treasures
Instructor: Mrs. Chappell

Goal: Students will use chocolate chips and toothpicks to "dig".

Materials:
Chocolate chip cookies
Magnifying glasses
toothpicks

Directions:

1. Watch this dinosaur fossil digging video
2. Remember that you must be very careful when digging for "fossils" not to break them.
3. Get your chocolate chip cookies and toothpicks.
4. Use your magnifying glasses to help you dig out your chocolate chips.
5. Carefully use your toothpicks to chisel out the chocolate chips.
6. How many chocolate chips did you get from each cookie?

Activity #2: Digging up Dinosaurs!
Instructor: Megan Sonday

Goal: Pretend you are a paleontologist!

Materials:
Excavating tools you have around your house

- toy tools
- hammer
- Paintbrushes
- Toothbrushes
- any other tools you think could be used to dig out the dinosaurs

At least one Tupperware Container
Cornstarch
Water
Dinosaur skeleton toys

Directions:

1. Learn all about how paleontologists dig up dinosaurs by listening to the book, “Digging Up Dinosaurs! You can see it in an episode of Reading Rainbow or just listen to the book!
2. Create your own dinosaur dig!
3. Mix up some oobleck by combining cornstarch and water. The exact measurements will depend on the size of the container you are using and how much cornstarch you have on hand. You will want to use approximately twice as much cornstarch as water. So if you use 2 cups of cornstarch, you will use 1 cup of water. If it is too soupy, add more cornstarch. If it is too thick, add more water.
4. Put the dinosaurs into the oobleck. You will want to push them down as much as possible so that they are buried. You can use multiple containers if you like and dig your dinosaurs out separately!
5. Put the container(s) outside in the sun and leave it for a day or two. You will know when it is ready because it will get very hard and it will start to crack all over the surface.
6. Use your tools to dig up the dinosaurs!

Wednesday:

Activity # 1: Digging For Dinosaurs

Instructor: Mrs. Chappell

Goal: Students will dig and find their dinosaur treasure.

Materials:
Surprise dinosaur eggs

Directions:

1. Play this fossil digging game

2. Get your dinosaur surprise eggs
3. Use the brush and chisel to chisel out your surprise dinosaur

Activity #2: Amber Fossils

Instructor: Miss Sonday

Goal: Learn how fossils are formed in amber

Materials:

Clear plastic cups or glass bowl
1 package yellow/orange colored gelatin
1 ¼ cups of boiling water
gummy candies
Cooking spray (optional)

Directions:

1. Fossils are clues that scientists use to gather knowledge about prehistoric life. One type of fossil comes from hardened tree sap. When creatures became trapped in the sap, they were well-preserved. Today, these fossils, called “amber,” provide scientists with an amazing look at creatures from long ago.
2. **Amber** is the common name for fossil resin. It occurs in different colors and has been valued throughout history as a gemstone. Amber is made into a variety of decorative objects such as jewelry.The resin can contain beautifully preserved plants and the remains of insects, spiders, frogs, shellfish and other small organisms that became trapped while it was fluid. In most cases the organic structure (the animal’s body) has disappeared, leaving only a cavity or space in the shape of the body.
3. Here is a short, wordless video showing how amber fossils are formed!
4. Click here to learn more about amber!
5. Here are some actual amber fossils!
    a. Amber Fossils
    b. Baby Bird in Amber
7. We are going to make our own version of amber! Instead of being fossilized though, we are going to eat it!
8. If you want to be able to look at your amber without the cup, spray the inside of the cup with cooking spray so you can remove the “amber” easily. Or you can just look through the sides and top of the cup. You can also use a glass bowl in the same way.
9. Mix the gelatin with the boiling water. Stir until completely dissolved.
10. Carefully pour the gelatin in the cups so they are about 3/4 full. Place the cup in the refrigerator.
11. When the surface is almost set, gently press a gummy candy into each of the cups. Make sure you push the candy in only part-way, so that it looks suspended in the gelatin, rather than

sunken down at the bottom. Because the gelatin is not completely set at this point, the hole from where the gummy was pushed in should close up and disappear.

12. Refrigerate the fossils for several more hours until completely firm.
13. Once firm, invert each cup/bowl onto a plate. What do you see in the “amber?”
14. Now it’s time to make like a fossil hunter, and DIG IN!

Thursday

Activity # 1: Volcanoes

Instructor: Mrs. Chappell

Goal: Students will make their own volcanoes.

Materials:
Food coloring
Vinegar
Baking soda
container

Directions:

1. Watch the video on Volcanoes
2. Get a container
3. Place the container in the sink
4. Pour in some baking soda
5. Put a few drops of food coloring
6. Dump in the vinegar into the container
7. Add vinegar and baking soda to keep the experiment going as long as you would like.

Activity #2: If the dinosaurs came back...

Instructor: Miss Sonday

Goal: Imagine what life would be like if the dinosaurs came back!

Materials:
White drawing paper
Markers or paints
Masking Tape

Directions:

1. Dinosaurs have been extinct for 65 million years. You can learn more about where they lived and what they were like here.
2. Today we are going to imagine what it was like if dinosaurs lived today!
3. Listen to the story, "If the Dinosaurs Came Back"
4. Think about what you think would happen if dinosaurs lived today! What would they do where you live? What about the beach? How about a big city like Philadelphia or New York City?
5. Make a painting or drawing of your ideas! This painting/drawing will also show the bones inside your dinosaur!
6. If you have water color paints, you can follow these directions.
7. If you want to use the paints or markers from your supply box, you have to do things a little differently.
8. Draw the outline of your dinosaur with a marker. Don't color it in yet!
9. Here's some tips on drawing your dinosaur!
    a. How to draw a t-rex
    b. How to draw a triceratops
    c. How to draw a pterodactyl
    d. How to draw a brontosaurus
    e. How to draw a stegosaurus
10. Take your masking tape and tear it into small pieces. Use these small pieces to create your dinosaurs skeleton inside the outline that you drew

11. Color your dinosaur in using your paint or markers. Color or paint right over the tape! You can also use markers and paints to add trees, buildings, whatever you like to the picture around your dinosaur.
12. Wait until the paint or marker dries.
13. Carefully peel the tape off of your paper to reveal the dinosaur's skeleton!

Links to this week's videos:

Tuesday

Activity #1

- video

Activity #2

- Reading Rainbow
- Digging Up Dinosaurs

Wednesday

Activity #1

- fossil digging game

Activity #2

- How amber fossils are formed
- Amber Fossils
- Baby Bird in Amber

Thursday

Activity #1

- Volcanoes

Activity #2

- "If the Dinosaurs Came Back"
- How to draw a t-rex
- How to draw a triceratops
- How to draw a pterodactyl
- How to draw a brontosaurus
- How to draw a stegosaurus

Links to this week's resources:

Tuesday

Activity #1

-

Activity #2

-

Wednesday

Activity #1

-

Activity #2

- Learn more about amber!

Thursday

Activity #1

-

Activity #2

- How did the dinosaurs go extinct?
- Watercolor Directions