OCEAN EXPLORERS

5 DAYS OF THEMED SCHOOL-AGE SUMMER CAMP LESSONS

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OCEAN EXPLORERS

Dive into oceanography with hands-on experiments! Explore the differences between freshwater and saltwater, simulate ocean currents with colored water and ice cubes, and test materials for cleaning up oil spills. Ocean Explorers is a robust school-age unit steeped in activities that enable students to challenge themselves, experiment, and transform information into meaningful content and skills. While the lesson plan incorporates many different Pennsylvania Learning Standards, it focuses on the key learning area of "Scientific Thinking and Technology." Specifically, students will learn to engage in learning activities that meet the PA Standard Areas of Physical Science, Earth and Space Science, and Environmental Literacy and Sustainability.

SCHEDULE

DAY 1

ARRIVAL ACTIVITY	180 MINUTES
READY, SET, LEARN	45 MINUTES
HANDS-ON ACTIVITY – WATER POLLUTION CRAFT	30 MINUTES
BREAK/SNACK TIME	15 MINUTES
LET'S GET MOVING – PASS THE SALT	45 MINUTES
HANDS-ON ACTIVITY – SALTWATER VS. FRESH WATER DENSITY	30 MINUTES
BREAK/LUNCHTIME	45 MINUTES
HANDS-ON ACTIVITY – TIDE POOL ART	45 MINUTES
SOCIAL-EMOTIONAL LEARNING – DON'T BE SALTY	45 MINUTES
HANDS-ON ACTIVITY – SALTWATER CONDUCTIVITY	45 MINUTES
WRAP UP/GOODBYES	15 MINUTES
LATE PICK-UP	10 MINUTES

DAY 2

ARRIVAL ACTIVITY	180 MINUTES
READY, SET, LEARN	45 MINUTES
HANDS-ON ACTIVITY – POND UNDERWATER PLATE CRAFT	30 MINUTES
BREAK/SNACK TIME	15 MINUTES
LET'S GET MOVING – PROTECT YOUR POND	45 MINUTES
HANDS-ON ACTIVITY – WATERFALL DRAWING	30 MINUTES
BREAK/LUNCHTIME	45 MINUTES
HANDS-ON ACTIVITY – FOIL EMBOSSED FISH PUPPET	45 MINUTES
SOCIAL-EMOTIONAL LEARNING – FRESHWATER MINDFULNESS 5-4-3-2-1	45 MINUTES
HANDS-ON ACTIVITY – FAN FISH	45 MINUTES
WRAP UP/GOODBYES	15 MINUTES
LATE PICK-UP	10 MINUTES

MATERIALS LIST

- Multimedia player
- Cardstock (white, light & medium blue)
- Markers
- Scissors
- Liquid glue
- Glue sticks
- Small pieces of plastic “pollution” items
- Saltshaker
- Salt
- Music player
- Clear plastic cups
- Water
- Salt
- Food coloring
- Watercolor paper
- Crayons
- Washable craft paint
- Watercolor paints (brown & blue)
- Paintbrushes
- Sand
- Paper
- Pencils
- Craft sticks
- Aluminum foil
- 9V battery
- Tape
- Plastic spoon
- Buzzer (see shopping link in Additional Resources)
- Sequins
- Paper plates
- Buttons
- Small stones
- Yarn (including green, blue & white)
- 4mm thick twine or string
- Hula hoops
- Playground balls
- 4mm thick twine
- Construction paper (including black, pink, and blue)
- Plastic bowls
- Ice cubes
- Kiddie pool or large round container
- Rubber ducks
- Sticky notes
- Rulers
- Paint swatches (brown & multiple shades of blue)
- Ocean animal stickers
- Colored pencils (including white and/or yellow)
- Clear contact paper
- Chenille stems (including various metallic colors)
- Index cards
- Hole punch
- Ribbon
- Tissue paper (blue & white)
- Googly eyes
- Clear, empty bottles with lids
- Permanent marker (black—adult use only)
- Cotton balls
- Lined paper
- Posterboard
- 1 cup measuring cups
- Small buckets or containers
- Vegetable oil
- Feathers
- Paper towels
- Sponges
- Cotton swabs
- Dish soap
- Brass fasteners
- Optional: Chart paper
- Optional: ¾” round stickers

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ACTIVITY/CONCENTRATION

HANDS-ON ACTIVITY: SPRING RAIN CLOUD CRAFT

- **STEP 1:** Students will draw and cut out a cloud shape from cardstock.
- **STEP 2:** Next, students will stretch 5-6 cotton balls and glue them onto the cloud to fill the shape.
- **STEP 3:** Cut out two pink circles from construction paper to be cheeks. Glue on the cheeks, googly eyes, and a chenille stem bent to look like a smile.
- **STEP 4:** Cut one piece of contact paper to be the same shape as the cloud. Peel off the backing of one piece of contact paper and place the cloud on top of the sticky side.
- **STEP 5:** To make the raindrops, students will need to cut tear-drop shapes from blue or black construction paper. Assist the students in then cutting out the middle of each drop to create a hole.
- **STEP 6:** Peel the back off a piece of contact paper and lay the raindrops on top. Students will cut tiny squares of blue tissue paper and stick them inside the hole of the raindrops.
- **STEP 7:** Now firmly press another piece of contact paper over top of the raindrops. Students will cut out each raindrop, which will now look laminated.
- **STEP 8:** Cut three pieces of yarn of different lengths and use tape to secure the yarn to the raindrop and then to the cloud.

DURATION/SCHEDULE

45 minutes – 2 to 2:45 p.m.

MATERIALS

- Cardstock (white)
- Contact paper
- Construction paper (pink, blue and/or black)
- Googly eyes
- Chenille stems
- Tissue paper (blue)
- Markers
- Scissors
- Liquid glue
- Tape

GOALS/OBJECTIVES

- Create a work of art using a variety of technologies
- Use hands, fingers, and wrists to manipulate small objects

STANDARDS

- 9.1.V 2.J
- 10.5 2.A

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FRESHWATER MINDFULNESS

5 THINGS I CAN SEE:

4 THINGS I CAN HEAR:

3 THINGS I COULD TOUCH

2 THINGS I COULD SMELL

1 WORD TO DESCRIBE HOW THIS SCENE MAKES ME FEEL:

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