

ATC Centers Quarterly Curriculum

Quarter 1 Jan-March

Preschool Playbook: Life Cycles and Sustainability Curriculum

Introduction:

In this curriculum, students will explore the life cycles of various organisms, including chickens, butterflies, frogs, and plants. They will learn about the important role each organism plays in its ecosystem and the importance of sustainability in maintaining balance.

Topics:

1. Chicken Life Cycle: Students will learn about the different stages of a chicken's life cycle, from egg to adult, and what each stage needs to grow and thrive.
2. Butterfly Life Cycle: Students will learn about the metamorphosis process of a butterfly and the four stages of its life cycle: egg, caterpillar, pupa, and adult.
3. Frog Life Cycle: Students will learn about the different stages of a frog's life cycle, including egg, tadpole, and adult. They will also learn about the adaptations frogs have to survive in their habitats.
4. Plant Life Cycle: Students will learn about the life cycle of plants and the important role they play in the ecosystem. They will also learn about different types of plants and how they grow, including plants that can withstand harsh winter conditions.
5. Niche and Sustainability: Students will learn about the unique role each organism plays in its ecosystem, known as its niche. They will also learn about the importance of sustainability in maintaining balance in the ecosystem.
6. Overconsumption: Students will learn about the negative effects of overconsumption on the environment and the importance of using resources responsibly.
7. Habitats: Students will learn about the different types of habitats and the unique features of each. They will also learn about the plants and animals that can be found in each habitat.
8. Goldfish in a Pond: Students will learn about the importance of keeping populations in balance, including that of goldfish in a pond. Overpopulation can

lead to negative impacts on the environment, including the depletion of resources and increased waste.

Crafts:

1. Chicken Life Cycle: Students can create a craft depicting the different stages of a chicken's life cycle, including an egg, chick, juvenile, and adult.
2. Butterfly Life Cycle: Students can create a craft depicting the different stages of a butterfly's life cycle, including an egg, caterpillar, pupa, and adult.
3. Frog Life Cycle: Students can create a craft depicting the different stages of a frog's life cycle, including an egg, tadpole, and adult.
4. Plant Life Cycle: Students can create a craft depicting the different stages of a plant's life cycle, including seed, sprout, mature plant, and flower.
5. Niche and Sustainability: Students can create a craft showing the different niches within an ecosystem and the importance of sustainability in maintaining balance.
6. Overconsumption: Students can create a craft showing the effects of overconsumption on the environment and the importance of using resources responsibly.
7. Habitats: Students can create a craft showing the different types of habitats and the unique features of each, including the plants and animals that can be found in each.
8. Goldfish in a Pond: Students can create a craft showing the importance of keeping populations in balance, including that of goldfish in a pond. This can include a visual representation of the negative impacts of overpopulation, such as depleted resources and increased waste.

Conclusion:

Through this curriculum, students will gain a deeper understanding of the life cycles of various organisms and the importance of sustainability in maintaining balance in the ecosystem. They will also learn about the unique role each organism plays, the interconnections between different species, and the consequences of overconsumption and disturbance of habitats. By exploring the life cycles of a chicken, butterfly, frog, and plants, students will see how all living things are connected and how small actions can have a big impact on the environment. Through hands-on activities, discussions, and creative projects, students will develop a lifelong appreciation for the natural world and the importance of preserving it for future generations.

Quarter 2 April-June

Preschool Playbook: Recycling and Composting

Introduction: Recycling and composting are important concepts for children to understand at an early age. By learning about these practices, they can develop an appreciation for the environment and the role they play in preserving it.

Lesson 1: What is Recycling?

- Define recycling and its purpose.
- Show examples of recyclable items (e.g. paper, plastic, glass, aluminum).
- Have children sort recyclables into appropriate containers.
- Craft: Recyclable Collage - Have children create a picture using recyclable items like paper, cardboard, and bottle caps.

Lesson 2: What is Composting?

- Discuss what composting is and why it is important.
- Show examples of compostable materials (e.g. fruit and vegetable scraps, leaves, grass clippings).
- Teach children the steps to composting: collect compostable materials, layer in a compost bin, turn occasionally.
- Craft: Compost Jar – Have children create a compost jar by layering compostable materials in a clear jar, adding water, and observing over time as it decomposes into soil.

Lesson 3: The Importance of Recycling and Composting

- Discuss how recycling and composting can help reduce waste and conserve resources.
- Talk about how waste and overconsumption can harm the environment.
- Explain how composting and recycling can improve soil health and reduce pollution.
- Craft: Recycling & Composting Poster – Have children create a poster or sign to encourage others to recycle and compost.

Conclusion: By learning about recycling and composting, children can develop an understanding of the impact they can have on the environment and learn how to make a difference through simple actions. This curriculum provides hands-on activities and crafts to help children understand these concepts in a fun and engaging way.

Spring Planting and Harvesting Playbook for Preschool:

Preschool Playbook: Spring Planting & Harvesting

Introduction: In this playbook, students will learn about the exciting process of spring planting and harvesting through hands-on activities and interactive lessons. They will discover the basics of gardening, from selecting the right soil and seeds, to planting and caring for their plants, and finally, reaping the rewards of a successful harvest.

Lesson 1: Understanding Soil and Seeds Objective: Students will learn about the different types of soil and how to select the right soil for their plants. They will also learn about the different parts of a seed and what they need to grow.

Materials:

- Soil samples
- Seeds of different plants (e.g. beans, sunflowers, and peas)
- Magnifying glasses
- Chart paper and markers
- Hands-on activities (e.g. soil sifting, seed observation)

Lesson Plan:

1. Introduce students to the different types of soil, using soil samples to illustrate the differences between sandy, clay, and loamy soil.
2. Have students observe the different seeds using magnifying glasses and chart paper to draw and label the different parts of a seed.
3. Engage students in hands-on activities, such as soil sifting and seed observation, to help them understand the importance of soil and seeds for growing plants.

Craft: Seed-Starting Pots Objective: Students will make their own seed-starting pots using recycled materials.

Materials:

- Egg cartons
- Scissors
- Soil
- Seeds
- Paint or markers

Instructions:

1. Cut individual cups from an egg carton.
2. Decorate the cups with paint or markers.
3. Fill the cups with soil.
4. Plant seeds in the soil.
5. Water and place in a sunny window.

Lesson 2: Planting and Caring for Plants Objective: Students will learn how to plant and care for their seeds, including how to water and provide light and nutrients.

Materials:

- Soil
- Seeds
- Planting pots or trays
- Watering cans
- Sunlight
- Nutrient-rich soil or compost
- Chart paper and markers

Lesson Plan:

1. Demonstrate how to plant seeds in soil, using planting pots or trays.
2. Explain the importance of watering and provide sunlight for the plants.
3. Discuss the benefits of adding nutrient-rich soil or compost to the soil.
4. Have students plant their own seeds and take turns watering and providing light for the plants.
5. Chart the progress of the plants over time, observing and recording any changes.

Craft: DIY Garden Tools Objective: Students will make their own garden tools, such as trowels and watering cans, using recycled materials.

Materials:

- Empty milk cartons or juice boxes
- Scissors
- Paint or markers
- Sticks or small branches
- Hot glue gun

Instructions:

1. Cut the milk cartons or juice boxes into the desired shape for the garden tools.
2. Decorate the cartons or boxes with paint or markers.
3. Attach sticks or small branches to the cartons or boxes using a hot glue gun to make the handles.
4. Use the tools in the garden to care for their plants.

Lesson 3: Harvesting Objective: Students will learn about the exciting process of harvesting their plants and how to prepare their produce for eating.

Materials:

- Harvested plants Start by discussing the difference between spring and other seasons.
- Talk about the changes that occur in the environment during spring, including the return of warm weather and the growth of new plants and flowers.
- Ask students to think about their own experiences with spring, such as planting and watching plants grow.

II. Planting:

- Provide each student with a small container and soil.
- Demonstrate how to properly plant seeds and care for the growing plants.
- Have students plant their own seeds and label the containers with their names.

III. Harvesting:

- As the plants grow, discuss the different stages of their life cycle and the changes they undergo.
- When the plants are ready, demonstrate how to properly harvest and care for them.
- Have students harvest their own plants and take them home to care for or use in a class project.

IV. Craft:

- Using the harvested plants, have students create a spring garden collage.
- Provide materials such as paper, scissors, glue, and markers.
- Have students arrange the plants on the paper to create a unique and colorful display.

V. Conclusion:

- Summarize what students learned about the life cycle of plants and the importance of planting and harvesting in the spring.
- Emphasize the role of each individual in caring for and sustaining the environment.

Conclusion:

Spring Planting and Harvesting are important concepts for preschoolers to learn as they lay the foundation for understanding how food grows and how humans can care for and cultivate the earth. By learning about spring planting and harvesting, preschoolers can develop an appreciation for nature and the role they can play in preserving it. This knowledge can also encourage healthy eating habits, as children can understand where their food comes from and the effort that goes into growing it. Additionally, planting and harvesting can also provide hands-on learning experiences that enhance their fine motor skills and coordination. Through these activities, preschoolers can develop a sense of pride and accomplishment as they learn about the cycle of growth and the importance of taking care of the earth. Overall, learning about spring planting and harvesting is a valuable and enjoyable experience for preschoolers, as it opens up a world of discovery and fosters a love for nature and all its wonders.

Quarter 3 July- September

Preschool Playbook: Ocean Curriculum

Introduction: The ocean is a vast and fascinating world full of diverse creatures, habitats, and ecosystems. This curriculum is designed to introduce preschool students to the wonders of the ocean and encourage them to learn more about this important part of our planet. The following lessons and activities are intended to be fun, educational, and interactive.

Lesson 1: Introduction to the Ocean Objective: To familiarize students with the concept of the ocean and its importance. Materials: Large world map, ocean animal toys, ocean picture book

- Start by asking the students if they have ever seen the ocean or if they know what it is. Show them the world map and point out where the ocean is located.
- Read a simple ocean picture book to the class, highlighting the different creatures and habitats that exist in the ocean.
- Introduce the ocean animal toys and let the students examine and play with them. Ask them to name the animals and what they think they do in the ocean.
- Discuss the importance of the ocean and how it helps support life on Earth.

Lesson 2: The Different Zones of the Ocean Objective: To introduce the students to the different zones of the ocean and the creatures that live in each zone. Materials: Ocean zone chart, ocean animal toys, ocean picture book

- Show the students the ocean zone chart and explain that the ocean is divided into different areas based on depth and temperature.
- Use the ocean animal toys to demonstrate which creatures live in each zone. For example, dolphins live in the surface zone, while octopuses live in the deep-sea zone.
- Read a simple ocean picture book that highlights the different zones of the ocean and the creatures that live in each zone.
- Ask the students to guess which creatures they think live in each zone and why.

Lesson 3: Ocean Animals and their Adaptations Objective: To teach students about the different adaptations of ocean animals and why they are important. Materials: Ocean animal toys, ocean picture book, magnifying glass

- Choose a few of the ocean animal toys and ask the students to examine them closely with a magnifying glass.
- Point out specific adaptations such as fins, webbed feet, or shells, and explain how these adaptations help the animals survive in their environment.
- Read a simple ocean picture book that highlights the adaptations of different ocean animals.
- Ask the students to draw their own ocean animal and label its adaptations.

Lesson 4: The Importance of Protecting the Ocean Objective: To educate students on the importance of protecting the ocean and its inhabitants. Materials: Ocean animal toys, ocean picture book, recycled materials

- Discuss with the students the dangers that the ocean and its creatures face, such as pollution, overfishing, and climate change.
- Read a simple ocean picture book that teaches about the importance of protecting the ocean and its creatures.
- Encourage the students to recycle and reduce waste by creating their own ocean animals from recycled materials.
- Explain how their actions can help protect the ocean and its inhabitants.

Conclusion: This ocean curriculum is designed to be a starting point for preschool students to learn about the fascinating world of the ocean. By introducing the different zones, creatures, and adaptations of ocean animals, students can gain a better understanding and appreciation for this important part of our planet. It is our hope that this curriculum will inspire students to learn more about the ocean and take action to protect it for future generations.

Preschool Playbook: Sediments, Salinity, and Building: A Fun Exploration of Science"

Introduction: Introduce the concepts of sediment, salt water vs. fresh water salinity, volcanic lava, crystals, gems, and building. Explain how they all relate to each other and why they are important to understand.

Experiments:

1. Mixing: Have children mix different materials together, such as sand and water, to see what happens. Discuss how they can observe sediment forming.
2. Chemical Reactions: Demonstrate simple chemical reactions with safe materials such as baking soda and vinegar. Have children predict what will happen when the two are mixed.
3. Physics and Gravity: Explore the effects of gravity by dropping different objects and observing their movements. Discuss why some objects fall faster than others.
4. Slime: Teach children how to make slime using simple ingredients such as glue and borax.
5. Rocks: Collect and observe different types of rocks, discussing their properties and how they were formed.
6. Salt vs. Fresh Water Salinity: Demonstrate the differences between salt water and fresh water by floating different objects in each. Discuss how salinity affects plants and animals.
7. Volcanic Lava: Explain how volcanic lava forms and discuss its properties.
8. Crystals and Gems: Show children different types of crystals and gems and discuss their unique properties.

Building:

1. Sandcastles: Teach children how to build sandcastles using different materials, such as shells, rocks, and sticks.
2. Gem and Crystal Creations: Have children create their own gem and crystal creations using different materials.
3. Volcanic Lava Sculptures: Teach children how to create sculptures using modeling clay to represent volcanic lava.

Conclusion: Sum up the key concepts and experiments covered in the play book and encourage children to continue exploring and learning about sediment science. Discuss how they can use their knowledge to build things and understand the world around them.

Quarter 4 October-December

Body Parts, Anatomy, Emotional Well-Being, and Growth Playbook for Preschool:

Introduction:

This curriculum is designed to teach preschoolers about their bodies, emotions, and the important role they play in their overall growth and development. Students will learn about different body parts, anatomy, and emotions, and how to take care of themselves both physically and emotionally.

Lesson 1: Body Parts

Objective: To teach preschoolers about different body parts and their functions.

Materials:

- Picture cards or diagrams of body parts
- Markers or crayons
- White paper

Procedure:

1. Show the students a picture or diagram of the human body.
2. Ask them to identify different body parts, such as head, arms, legs, etc.
3. Explain the functions of each body part and ask the students to repeat after you.

4. Have the students color and label their own body parts diagram using markers or crayons.

Craft:

- Body Parts Collage: Have students create a collage of different body parts using paper cutouts or pictures from magazines.

Lesson 2: Emotions

Objective: To teach preschoolers about different emotions and how to express them.

Materials:

- Emotion cards or illustrations
- Markers or crayons
- White paper
- Glue

Procedure:

1. Show the students different emotion cards or illustrations, such as happy, sad, angry, etc.
2. Ask them to identify the emotions and to associate them with real-life scenarios.
3. Explain how it is okay to feel emotions and how they can express them in a healthy way.
4. Have the students draw and color their own illustrations of emotions and then glue them on to a piece of paper.

Craft:

- Emotion Masks: Have students create masks to represent different emotions. They can decorate them with markers, crayons, or other materials.

Lesson 3: Good Choices and Sharing

Objective: To teach preschoolers about making good choices and the importance of sharing.

Materials:

- Picture cards or illustrations of good choices and sharing
- Markers or crayons
- White paper
- Glue

Procedure:

1. Show the students picture cards or illustrations of good choices and sharing.
2. Ask them to identify which choices are good and which are not, and why.
3. Explain the importance of making good choices and how it affects others.
4. Talk about the importance of sharing and how it can make others happy.
5. Have the students draw and color their own illustrations of good choices and sharing and then glue them onto a piece of paper.

Craft:

- Sharing Circle: Have students create a circle using construction paper. They can decorate it with illustrations of good choices and sharing, and then hang it up in the classroom.

Conclusion:

By participating in this curriculum, preschoolers will develop a better understanding of their bodies, emotions, and the role they play in their overall growth and development. They will also learn about making good choices, sharing, and how to take care of themselves both physically and emotionally.

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