

Didactic Scenario

1. Title

Let's Make a Bird Feeder: An Adventure Filled with Science

2. Keywords

Science, Nature, Animals care, Sustainability, Art craft

3. Basic Information

STEAM Subject: Science

Typical interaction time with the instructional scenario in teaching hours for in-school work:
Science 1 hour, Art 1 hour.

General description of the scenario:

Phases	Stage	Time
1	Briefing and design of the feeder	10 minutes
2	Construction of the beard feeder	20 minutes
3	Bird Food Preparation	15 minutes
4	Game - Bird Feeder Activity	20 minutes

Age group: 6 to 10 years old

Estimated difficulty level:

Very Easy	Easy	Moderate	Challenging	Very Challenging
	X			

Teaching resources

Material: A smooth-cut plastic or cardboard bottle, Colored papers or paints, Glue or tape, Scissors, String or thread, Various birdseeds (sunflower seeds, poppy seeds, oats, etc.), Bird food or dried fruit pieces

School infrastructure: Not required.

Additional material from external sources/online tools:

https://www.youtube.com/watch?v=Mvo0ETCUgU&ab_channel=TheHomeDepot

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4. Educational Problem

The problem identified in class is the lack of knowledge about nature. In particular, this scenario can be used to compensate for the lack of observation of flora and fauna.

5. Learning Objective (-s)

1. Having a fun and creative experience.
2. Explore basic scientific concepts.
3. Increase their interaction with nature.

6. Phases of the Scenario

Phase 1

Title: Bird feeder design

Indoor	Outdoor	Mixed
X		
Phase duration in minutes: 10 minutes		
<p>Detailed description of the scenario phase:</p> <p>Briefly explain to the students what a bird feeder is and its importance in supporting birds' natural habitat. Encourage the students to come up with their own bird feeder designs and listen to their ideas. Emphasize how making bird feeders can attract birds to their surroundings and how they can contribute to nature conservation.</p>		
Activity sheets:		
Phase 2		
Title: Construction of the beard feeder		
Indoor	Outdoor	Mixed
X		
Phase duration in minutes: 20 minutes		
<p>Detailed description of the scenario phase:</p> <p>Provide the students with a smooth-cut plastic or cardboard bottle and allow them to construct their bird feeders. Encourage them to use colored papers or paints to decorate the bottle, making the feeders colorful and attractive. Assist the students in making holes on the sides and bottom of the bottle for easy hanging on tree branches or windowsills. Help them attach string or thread to complete the feeders for outdoor hanging.</p>		
Activity sheets:		
Phase 3		
Title: Bird Food Preparation		
Indoor	Outdoor	Mixed

Phase duration in minutes: 15 minutes

Detailed description of the scenario phase:

Give the students various birdseeds and bird food to fill their feeders. Provide a variety of birdseeds and dried fruit pieces for the students to fill their feeders. Highlight the importance of different bird foods that support environmentally-friendly feeding.

Activity sheets:

Phase 4

Title: Game - Bird Feeder Activity

Indoor	Outdoor	Mixed
	X	

Phase duration in minutes: 20 minutes

Detailed description of the scenario phase:

Have the students go outside and hang their completed bird feeders on tree branches or windowsills.

Allow time for the students to observe how birds interact with the feeders and feed.

Provide notebooks and pencils for the students to take notes about the bird species they see.

Activity sheets:

7. Evaluation Methodology

Engage in a discussion with the students about their observations and experiences with the bird feeders. Emphasize some scientific concepts that the students can understand from observing the birds. Highlight the importance of their interactions with the natural world and encourage them to take further steps in nature exploration and conservation.

8. Additional Resources for the teacher

"Let's Make a Bird Feeder: An Adventure Filled with Science" activity provides elementary school students with an opportunity to practice scientific concepts and increase their interaction with nature by making bird feeders. The bird feeders foster their creativity and fine motor skills while allowing them to explore the natural world. This activity enables students to experience the connection between science and nature, leading them towards a greater understanding of environmental consciousness.