



Community Science

Lesson 1: What is community science?

Duration: 45 mins to 1 hour **Location:** Indoors/Outdoors

Overview

In this lesson students will:

Discover what community aka citizen science is, its purpose, and how they can become involved. They will be introduced to the basic needs and habitats. Students will learn about pollinators and how they're being impacted by climate change. To end, students will learn climate actions they can take to prevent climate change in the future.

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Learning objectives

By the end of the session, students will be able to:

- Define citizen science and understand how to contribute to solve real world problems
- Define the basic needs of all things, and identify habitats that provide needs to different local bird species
- Learn why birds are important and how they're being impacted by human activities
- Understand why climate change is happening and it's threat to animals
- Learn climate actions to take to help protect animal habitats

Curriculum links

Grade: 3

Subject and Unit: Science, Animal Life Cycles

- Demonstrate awareness that animals require different habitats in order to meet their basic needs of food, water, shelter and space;
- Recognize adaptations of a young animal to its environment, and identify changes in its relationship to its environment as it goes through life; e.g., tadpoles are adapted for life in an aquatic environment; adult frogs show adaptations to both terrestrial and aquatic environments;
- Identify examples of environmental conditions that may threaten animal survival, and identify examples of extinct animals;



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- Recognize that habitat preservation can help maintain animal populations, and identify ways that student actions can assist habitat preservation

Equipment required

- PowerPoint called "Lesson 1 what is citizen science (grade 3 pollinators)"
- Bee, Bee, Bee Game instructions
- 2, 6 foot ropes or 3-6 bean bags
- Climate jug activity supplies (two water bottles labelled "sink" and "source", and jug with spout labelled atmosphere)
- Computer with Wi-Fi
- Projector



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Lesson plan

Time	Activity	Equipment needed
15-20 mins	Citizen science introduction (slides 2-4) <ul style="list-style-type: none"> - Play Bee, Bee, Bee Game (find the instructions to game in kit) - Debrief questions on slide 3 - Go through the slide notes as a guide 	<ul style="list-style-type: none"> • Bee, Bee, Bee Game instructions • 2 6 feet ropes or 3-6 bean bags • Computer with Wi-Fi • Projector
5-10 mins	Needs Overview and Find my Habitat Activity (slide 5-6) <ul style="list-style-type: none"> - Find my Habitat Activity: students will guess which pollinator lives in which habitat based on information you provide them about the pollinator - Go through the slide notes as a guide 	<ul style="list-style-type: none"> • Computer with Wi-Fi • Projector
3 mins	What are pollinators? (slide 7) <ul style="list-style-type: none"> - Play video 	<ul style="list-style-type: none"> • Computer with Wi-Fi • Projector
5-8 mins	Why are pollinators important? Trivia Game (slide 8-11) <ul style="list-style-type: none"> - Test students knowledge on pollinators - Go through the slide notes as a guide 	<ul style="list-style-type: none"> • Computer with Wi-Fi • Projector
10-15 mins	Climate change introduction and climate change jug activity (slides 12-16) <ul style="list-style-type: none"> - Play video on slide 10 as a guide for the Climate Change Jug Activity - Go through the slide notes as a guide 	<ul style="list-style-type: none"> • Computer with Wi-Fi • Projector • Climate jug activity supplies (two water bottles labelled "sink" and "source", and jug)



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		with spout labelled atmosphere)
3 mins	Climate Actions Conclusion (slide 17) - Review slide 17 for actions to take to close the lesson	<ul style="list-style-type: none">• Computer with Wi-Fi Projector