



OFFICE, PRINCIPAL GOVERNMENT TULSI COLLEGE, ANUPPUR

Affiliated to Awadhesh Pratap Singh University Rewa (MP)

Registered Under Section 2 (F) & 12 (B) of UGC Act

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Project Report M.Sc Zoology IV Sem 2022-2023

Govt Tulsi College Anuppur

Distt. Anuppur (M.P)

Awdesh Pratap Singh University
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Subject & Department Zoology

PROJECT REPORT

ON

Build a Bird Feeder And Study the Bird in Your Backyard

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Objective

To build a bird feeder and find out what types of birds live in your area.

Introduction

Did you know that there exist about 10,000 different types of **birds** in the world? You do not have to go far to see some of them. They live outside in backyards, parks, and even in busy cities! Maybe you have seen some of them in your own backyard! But do you know what kinds of birds live in your neighborhood? Have you ever taken a closer look at them and what they do in your backyard? Some of the ones you have seen might look like the birds shown in Figure 1 below. When you see them, they are probably looking for **food**, **water**, or materials to build their nests. This is because birds spent most of their waking time fulfilling their basic needs for food, water, air, and **shelter**. You can find more information on the **basic needs** of animals in the information box below.



Figure 1. Some examples of birds that you might find in your neighborhood.

People who study birds are called **ornithologists**. They try to learn as much as they can about each of the different types of birds. For example, they study what each bird looks like, what they eat, where they live and fly, how they sound, and much more. If you would like to learn more about the birds in your area, then building a **bird feeder** is a great way to do that. A bird feeder

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will attract birds, allowing you to get a close-up look without disturbing them. This project shows you how to design and build a bird feeder from recycled materials. Once built, you can set your bird feeder up somewhere outside, such as in your backyard. Then the **bird watching** begins! Which birds do you expect to see?

Technical Note: Animal's Needs

Every animal on our planet, including birds but also humans, need food, water, air, and shelter to survive. Animals need to eat regularly to get energy for their bodies to function. The kind of food an animal eats depends on the type of animal; some animals hunt or prey (carnivores) on other animals whereas others will search for foods like plants or fruits (herbivores) or eat both (omnivores). A wild bird's diet consists of plants, such as grains or seeds, and animals, such as insects, worms, fish, or meat from dead organisms. Each animal chooses to live where they can find the food that they need to survive.

Water is also important. An animal's body can consist of as much as 90% water. Most animals lose water when they sweat or exhale. In order to replenish their water supplies, they have to drink on a regular basis. Some animals that live in the desert, where there is not a lot of water, get most of their water from the food they eat.

Almost every animal needs air, or a special gas called oxygen that is part of the air. Even fish that live underwater need to take up oxygen with their gills. The oxygen is important to keep the processes in the body working. For example, oxygen is needed to make energy from the food an animal eats. As birds need lots of energy and oxygen for flying, they have special air sacs, in addition to their lungs, for breathing.

Shelter, or a protected place to live, is important for all animals. Each animal can only live at a certain temperature range. When the temperatures get too high or too low, an animal will die. A shelter will help them keep in the temperature range they can tolerate. In addition, a shelter is where wild animals can raise their young because it helps protect them from dangers such as predators. The type of


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shelter, or home, an animal is building or choosing for themselves can vary. Some animals build underground burrows, some build a nest in a tree, and others prefer to live in a cave. In the wild, birds build nests made of twigs and other materials as their shelter. This is where they lay their eggs and raise their young. Some birds also live in hollow trees.

Terms and Concepts

- . Bird
- . Food
- . Water
- . Shelter
- . Basic need
- . Ornithologist
- . Bird feeder
- . Bird watching


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Experimental Procedure

In this project, you will first build a bird feeder from recycled materials, and then you will watch the birds that visit your bird feeder.

Building Your Bird Feeder

- Clean out the milk or juice container with warm water and soap and, if possible, remove the label. Let the container dry out completely.
- Ask an adult to help you cut an opening into at least one side of the container, as shown in Figure 2. The opening should be at least one inch above the bottom of the container and at least three inches in diameter. If you like, you can cut openings in more


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than one side of the container. You can also decide what shape the opening should have.



Figure 2. The opening on the side of the container should be at least three inches in diameter.

- Use some tape to cover the sharp edges of the container walls, so the birds don't get harmed when coming into your bird feeder.
- Decide where you want to insert a twig or wooden dowel (called a stick) into your bird feeder, so the bird has a place to sit. A good spot to place a stick is just under the doorway, creating a perch for the bird. You can also place a long stick inside the bird feeder that reaches from one side to the other.
- ❖ Have an adult helper poke holes into the container walls where you want the stick to be inserted.
- ❖ Then carefully push the stick into the holes.
- ❖ Use glue, or a glue gun to secure the stick in place.


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