

# STEM from Home

## Microbes and Germs

Microbes are tiny, unicellular organisms that are invisible to the naked eye. Since they can only be seen under a microscope, they are also known as microorganisms or microscopic organisms. Microbes make up almost 60% of the earth's living matter

Bacteria, fungi, archaea, or protists are some examples of microorganisms or microbes.

Use the following links to learn more about microbes:

- [Microorganisms - Britannica Kids](#)
- [What Are Germs?](#)
- [Introducing You to the Wonderful World of Microbes!](#)
- [More About Microbes: The Good, the Bad and the Downright Ugly!](#)

Or watch some videos:

- [Learn about Microorganism | Microbes](#)
- [Microorganisms : Friend And Foe | Part 1/2](#)
- [Microorganisms : Friend And Foe | Part 2/2](#)

In this STEM Pack you will engage in a research on Microbes and find out what they are, how they spread, are they harmful, and how can you protect yourself from disease causing microbes.

## Main Activity: Microbes and Germs - Online Presentation

### Introduction

In this activity you will learn about Microbes and prepare a presentation on Microbes using a program that helps in developing digital presentations that:

- are online
- can be developed without installing a program on your computer.
- are platform independent i.e., work seamlessly across different types of devices like laptop, desktop, tablet, or mobile phones etc.

Visit the following links to know more about this online presentation program:

[Google Slides -Quick Start Guide](#)

[Google Slides - The ULTIMATE guide](#)

### What You Will Need

#### Hardware

A computer connected to the internet.

#### Software

A modern web browser like Microsoft Edge, Chrome, or Firefox.

An email account on Google.

### What You Will Learn

- What are microbes?
- What are different types of microbes?
- How to create an online presentation using Google Slides

You can access the [guidelines for the activity](#) here.

# Bonus Activities

## Activity 1: Microbes and Germs – Work in Collaboration

### Introduction

In this activity you will learn to make use of features of a presentation program that help in developing a digital presentation in collaboration with your friends or classmates.

We recommend you go through the following links to know more about online collaboration.

[6 ways to get the most out of online collaboration with Google Slides](#)

[How to Use Google Slides Presentation Collaboration Tools Online](#)

Your task is to share the presentation you prepared in the main activity with your friend in such a way that he/she is able to add more slides to it. She/He will add information about protection from the germs.

You can also share the following link with them to know more about protection from viruses.

[Protect against bacteria, viruses, and infection](#)

### What You Will Need

#### Hardware

A computer connected to the internet.

#### Software

A modern web browser like Microsoft Edge, Chrome, or Firefox.

An email account on Google.

### What You Will Learn

How to develop an online presentation collaborating with your friends or classmates in real time.

Click to [access the guidelines for this activity](#).

## Challenge Activity: Evaluate Your Learning

In this activity you will learn to make use of features of a digital presentation program that help in evaluation of learning.

Your task is to create flash cards using google slides to check your understanding of whatever you have learnt about microbes.

Each card is actually a set of two slides. First slide will display the question on the screen and 2nd will show the answer.

Prepare flashcards with following questions.

Q1. Microbes can be seen with naked eye. True or false?

Answer: False

Q2. Microbes are always harmful to the humans. True or False?

Answer: False

Q3. Common cold is spread because of:

- a. Bacteria
- b. Virus
- c. Fungus

Answer: b

Q4. Which of the following is cause of Tuberculosis?

- a. Bacteria
- b. Protozoans
- c. Fungus

Answer: a

Q5. Which of the following is cause of Malaria?

- a. Protozoans
- b. Virus
- c. Fungus

Answer: a

Q6. Which of the following is cause of Ringworm?

- a. Bacteria
- b. Virus
- c. Fungus

Answer: a

*Hint: Use flash cards template from education category in google slides.*