

Year 6: Science Week 3

LI: To explain what a micro-organism is, what they need to survive and how some microbes are helpful and some are harmful

Success Criteria

I can identify virus, fungi and bacteria.

I can state what Protista, fungi and bacteria need to survive.

I can describe how humans use microbes.

Microorganisms can be separated into three groups: viruses, bacteria, and fungi. They can be harmful to people but some can be helpful.

Thinking about your own experiences – observing mouldy bread, eating yoghurts with ‘friendly’ bacteria, having a sore throat or tonsilitis. What do you think is happening in each of these pictures?



WANTED: GOOD BACTERIA

Want to look and feel your very best? Start enjoying more foods naturally high in probiotics — and in the fiber-rich prebiotics that help those good bugs thrive.

PROBIOTIC-RICH FOODS

DAIRY SOURCES

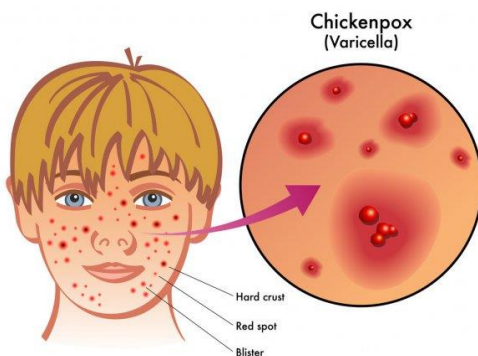
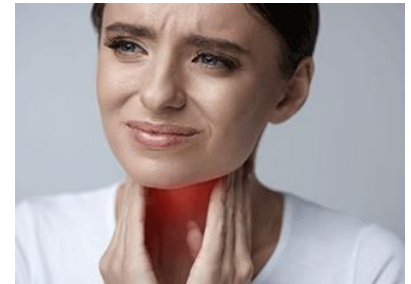
- Yogurt
- Kefir
- Buttermilk
- Crème fraîche
- Lassi, a drink made from yogurt and water



PREBIOTIC-RICH FOODS

VEGGIES

- Tomatoes
- Artichokes
- Onions
- Chicory
- Greens (especially asparagus)



Task 1: Helpful, harmful or both?

Some microorganisms can be helpful, yet others can be very harmful. Sort out the microorganisms and their products into the table below.

Useful microorganisms: <https://www.youtube.com/watch?v=tJqGg5QfH6Y>

Harmful microorganisms: https://www.youtube.com/watch?v=hTLu0_Y8W4o

yeast	yoghurt	mould	mushrooms	germs	plankton
bacteria	virus	fungi	antibiotics	penicillin	vaccinations

<u>Helpful</u>	<u>Both</u>	<u>Harmful</u>

Task 2:

Choose three of your microorganisms to write about. Why are they harmful, helpful or both? Make comparisons between these different microorganisms.

Challenge: How can we avoid spreading harmful microorganisms? What preventable measures can we take?



Task 3:

Mould is the name for the types of fungi that grow on food. What do you think makes mould grow?



Find out:

What is causing the foods to become mouldy?

Would it be safe to eat the mouldy foods?

How could we prevent mould from growing?

What does decay mean?

