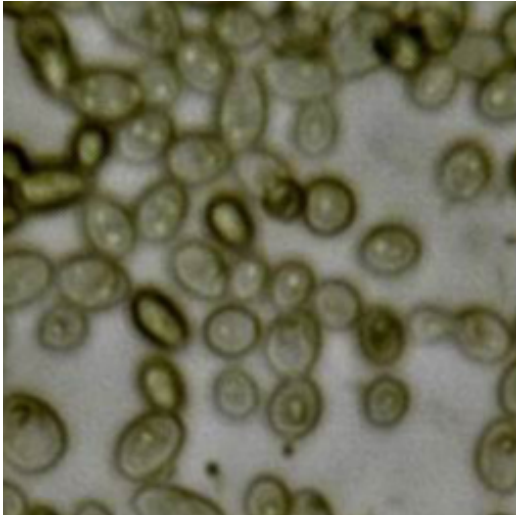


What do they all have in common?



How do you wash you hands?

- Does the temperature of the water matter?
- Should you use soap?
- Should you use alcohol gel?



Objectives

- To learn what a microorganism is and give an example.
- To recall the common features of the three main types of microorganisms.
- To understand that some microorganisms are useful and some make us ill.

Are you
ready?

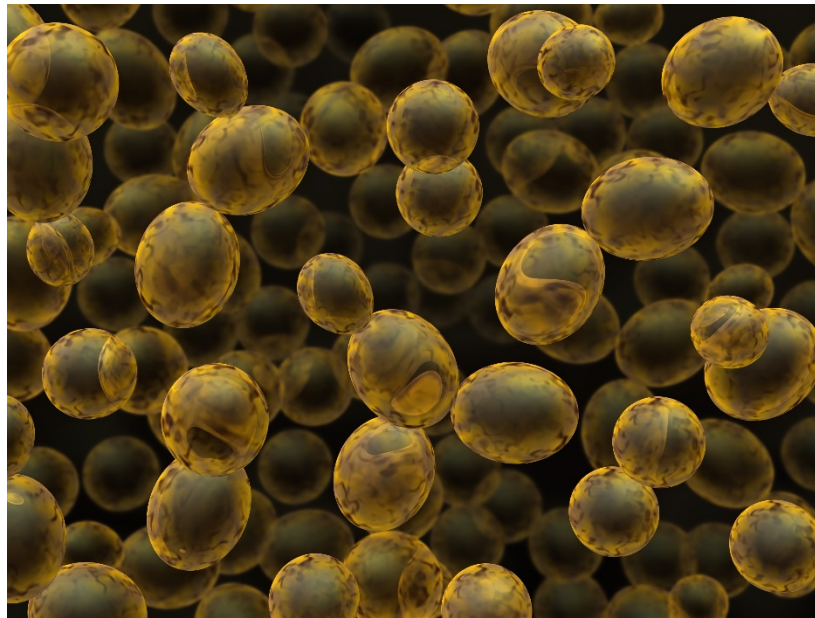
Microorganisms

- They are so small that you need a microscope to see them.
- There are three main groups of microorganism:
 - Yeast
 - Bacteria
 - Viruses



Microorganisms - Fungus

- Fungus have a cell membrane, hard cell wall and a nucleus.
- Yeast is a microorganism and a single celled fungus.



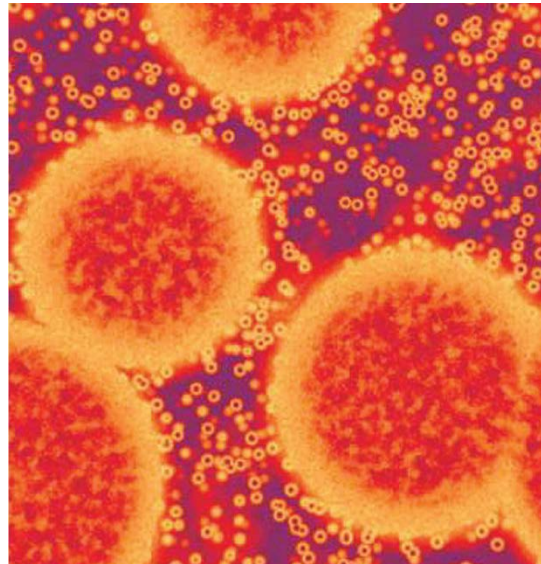
Microorganisms - Bacteria

- Bacteria have a cell membrane, soft cell wall and a nucleus. Some have a tail so that they can swim.
- *Clostridium botulinum* is a microorganism and a bacterium. This gives you food poisoning.



Microorganisms - Virus

- Viruses do not have a cell membrane, cell wall or a nucleus. They have a protein coat and a single strand of DNA.
- Norovirus is a microorganism and virus that causes severe sickness and diarrhoea.



Make your own MicroTrump card

- Look at the set of MicroTrump Cards. Choose research one microbe and make a new MicroTrump card.
- **Extension:** Design a new microbe and make its MicroTrump card.



What have we found out?

- Microbes can only be seen using a microscope.
- There are three types of microbes each with different characteristics.
- Some microbes are harmless, some useful and some dangerous.



Match the microbes to how they get into your body and the problems they cause.

Microbe	Definition	How does it spread
Yeast	Vomiting and diarrhoea	Sharing food with someone who has the illness or getting the virus into your mouth.
<i>Clostridium botulinum</i>	Infection	Found in some food and soil.
Norovirus	Food poisoning	When your immune system is low.

Reflection

- Think about one new thing that you have learned today.
- Think about one thing that you have revised today.

