What do they all have in common?
How do you wash your 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.

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

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