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## More About Microorganisms

<p><b>Aim:</b> To describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals by identifying the characteristics of microorganisms.</p> <p>I can identify the characteristics of different types of microorganisms.</p>	<p><b>Success Criteria:</b> I can draw conclusions from my results. I can describe and compare the structure of different cells. I can describe the characteristics of different microorganisms. I can design a microorganism using these characteristics.</p> <p><b>Key/New Words:</b> Microorganism, cell, eukaryote, nucleus, DNA, fungus, virus, bacteria.</p>	<p><b>Resources:</b> <a href="#">Lesson Pack</a> Mould investigation equipment from last lesson <a href="#">Mould Investigation Activity Sheets</a> from last lesson Playdough in different colours Petri dish per child</p> <p><b>Preparation:</b> <a href="#">Conclusion Activity Sheet</a> - 1 per child <a href="#">Make a Microorganism Activity Sheet</a> - 1 per child</p>
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**Prior Learning:** The children will have learnt about different types of microorganisms in Lesson 4. They will have set up an investigation into the growth of mould in Lesson 4.

### Learning Sequence

  	<p><b>Forming Conclusions:</b> Children observe their slices of bread from the mould investigation set up in Lesson 4. Children complete the differentiated <a href="#">Conclusion Activity Sheet</a> with their conclusion and answer to their question. <i>Look for children who can use their observations to draw accurate conclusions about the growth of mould.</i></p> <p>Children explain their conclusions and describe how they could use the results of their investigation to keep bread mould-free for longer.</p>	
	<p><b>Which Conditions Cause Mould to Grow?</b> Children move around the classroom to talk to other pairs about their conclusions. Children complete the Conditions for Mould Growth section of their <a href="#">Conclusion Activity Sheet</a> using the information they find out from their classmates.</p>	
	<p><b>Classifying Microorganisms:</b> Explain how Microorganisms are classified using the diagram and information on the <a href="#">Lesson Presentation</a>.</p>	
	<p><b>Different Cells:</b> Use the <a href="#">Lesson Presentation</a> to explain the main difference in the structure of the cells of different microorganisms, in particular fungi and bacteria.</p>	
	<p><b>Identifying Cells:</b> Children talk to their partner about the cells shown on the <a href="#">Lesson Presentation</a>, and attempt to identify which is a fungus cell and which is a bacterium cell. <i>Look for children who can identify the structure and characteristics of the cells found in different microorganisms.</i></p>	
  	<p><b>Make a Microorganism:</b> Children use different colours of play dough to sculpt their own single-celled Microorganism in a petri dish. Children complete their differentiated <a href="#">Make a Microorganism Activity Sheet</a> with the name of their Microorganism, its classification and its uses or effects. <i>Look for children who are able to use the characteristics of the different cells to create their own microorganism, and who can describe its uses and effects.</i></p> <p>Children refer to the key facts box on their activity sheet for information on the structure and classification of different cells.</p>	
	<p><b>What Do You Know About Microorganisms?</b> Children share 3 things they have learnt about Microorganisms with a partner.</p>	

### Taskit

- Displayit:** Take photographs of the children's playdough microorganisms. Create a display to show off their creations, along with facts about each microorganism.
- Makeit:** Children make a poster to describe and explain ways to store food so that it remains mould-free for as long as possible.
- Researchit:** Children find out about fungi that live in their local area. Can they name and identify the species local to their school? Remind children about the dangers of touching or eating any fungi they find.