

Marvellous micro-organisms equipment list

EQUIPMENT ITEM	QUANTITIES	LESSON	1	1	1	2	3	4	5	6	6	7	8
		SESSION	1	2	3					1	2		
Equipment and materials													
balloons	3 per team						•						
balloons	4 per team					•							
boxes or bags, opaque	for the class										•		
bread materials													
– bread mix packet	2 per class							•					
– bread or fruit	2 slices per team										•		
– bread, different varieties including one yeast-free variety (eg, chapatti, tortilla, roti, lavash)	3 varieties per class		•										
– bread-making machines	2 per class							•					
– list of ingredients from each bread wrapper	1 copy per team		•										
– mouldy bread or fruit in a clear, sealed plastic bag	1 sample per team									•			
funnel	1 per class					•							
funnel	1 per team					•	•						
jug	1 per class					•	•	•					
kettle	1 per class					•	•						
magnifying glass	1 per team		•								•		
masking tape	several strips per team					•	•				•		

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		SESSION	1	2	3					1	2		
Equipment and materials (continued)													
measures													
– ½ cup measure	3 per class					•	•						
– ½ cup measure	1 per team						•						
– ½ teaspoon measure	3 per class					•	•						
– ½ teaspoon measure	1 per team						•						
– ¼ cup measure	3 per class					•	•						
– ¼ cup measure	1 per team						•						
paper, A3	1 sheet per team												
paper towel	1 sheet per student								•				
pens													
– highlighter or coloured pen	1 per student									•			
– marking pen	1 per team					•	•			•			
plastic bags													
– clear resealable plastic bags	2 per team										•		
– plastic or paper bag, large	1 per class										•		
plastic bottles (350–400mL), all the same size	3 per team						•						
plastic bottles (350–400mL), all the same size	4 per team					•							
plastic spray bottle filled with water	1 per class										•		
plate or shallow container	1 per team		•										
poster (A3) or overhead projection of lists of bread ingredients	1 per class		•										

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		SESSION	1	2	3					1	2		
Equipment and materials (continued)													
resource sheets													
– ‘Anton van Leeuwenhoek (Layu-un-hook): Microscope maker’ (RS2)	1 per student				•								
– ‘Mould growth investigation planner’ (RS6)	1 per student											•	
– ‘Moulds’ (RS5), enlarged	1 per class										•		
– ‘Moulds’ (RS5), enlarged	1 per team										•		
– ‘Observation record: Exploring bread’ (RS1), enlarged	1 per class		•										
– ‘Observation record: Exploring bread’ (RS1)	1 per student		•										
– ‘Penicillin—the miracle mould’ (RS7)	1 per team												•
– ‘What happens when yeast is mixed with sugar and water?’ (RS3), enlarged	1 per class					•							
– ‘What happens when yeast is mixed with sugar and water?’ (RS3)	1 per student					•							
– ‘What’s the best temperature for yeast ot be active?’ (RS4), enlarged	1 per class						•						
– ‘What’s the best temperature for yeast ot be active?’ (RS4)	1 per team						•						
sugar	3 x ¼ cup measures per team					•	•						
thermometer	1 per class					•	•					•	
timer	1 per class					•	•	•					
tongs	1 per team		•										
water													
– water	for the class					•							
– water – cold	½ cup measure per team						•						
– water – hot >50°C	½ cup measure per team						•						
– water – warm	for bread-making demonstration							•					

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Equipment and materials (continued)													
- water – warm at 37°C	3 x ½ cup measures per team					•							
- water – warm at 37°C	½ cup measure per team						•						
yeast													
- active dry yeast	for bread-making demonstration							•					
- active dry yeast, 7g sachet	1 per team						•						
- rapid rise active dry yeast	3 x ½ tsp measures per team					•							
Teaching tools													
class science journal	1 per class		•	•	•	•	•	•	•	•	•	•	•
cooperative learning role badges	1 set per team		•			•	•		•	•	•	•	•
cooperative learning team roles chart	1 per class		•			•	•		•	•	•	•	•
cooperative learning team skills chart	1 per class		•			•	•		•	•	•	•	•
student science journal	1 per student		•	•	•	•	•	•	•	•	•	•	•
TWLH chart	1 per class		•	•	•	•	•	•	•	•	•	•	•
word wall	1 per class		•	•	•	•	•	•	•	•	•	•	•
Multimedia													
binocular microscope or video camera microscope connected to TV/computer <i>optional</i>	1 per class									•			
computer/s with internet access <i>optional</i>												•	
digital camera <i>optional</i>	1 per class					•	•	•					
overhead projector and screen <i>optional</i>	1 per class									•			