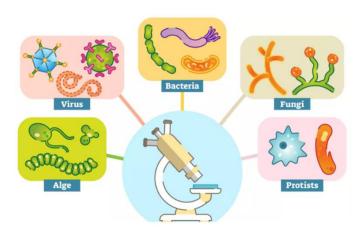


S2 Science Micro-organisms and You Homework



Name	
Class	
Teacher	

Homework	Date due	Score	Comment
1			
2			
3			

	There are 3 types of ame them.	micro-organisms.		
b)S	tate the order of size	largest to smallest.		
2.	The table below show	vs the blood groups of	200 students.	
	Blood group	Number of students		
	O	94		
	A	84		
	В	16		
	AB	6		
	% 2% 3%		ople with four diffe	erent viruses types most
	Viruses found	Number found in	a living room	
	The flu	5		_
	Norovirus	10		-
	Herpes simplex HPV	3		_
sim A 1 B 2 C 5	·		o of the noroviru	s compared to herpes
	_		ns to survive. Nan	ne these conditions/
	juirements to surviv			
1_				1
2_				
2				

5. Describe what happens to micro-organisms at high temperature	5.	Describe	what	happens	to	micro	-organism	ns at	high	temperature	es.
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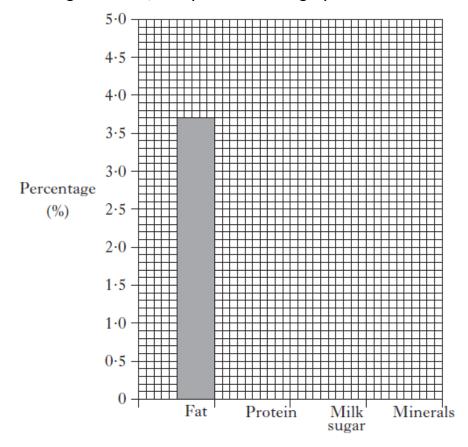
6.A scientist set up a petri dish. She wanted to see what types and how many micro-organisms were growing on a door handle. 1 side of the petri dish she put the sample from the door handle, but on the other side she didn't put a sample. Give the name of this protocol, and describe the purpose of it.

Name	
Purpose	2
1 di pose	

6. The table below shows the percentage of four substances found in a type of milk.

Substance	Percentage (%)
fat	3.7
protein	3.3
milk sugar	4.9
minerals	0.7

On the grid below, complete the bar graph



2

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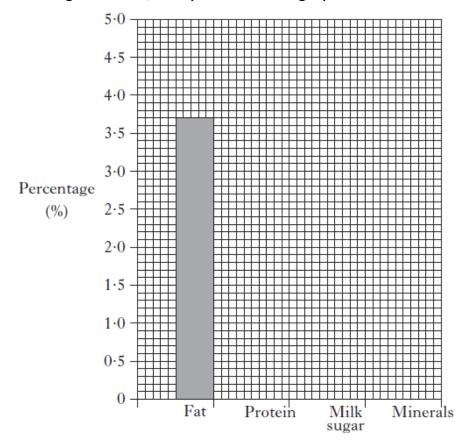
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Name	_	
Purpose		2

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2

Micro-organisms and you

Homework 1

3. There are 3 types of a)Name them.	micro-organisms.		
b)State the order of size	e largest to smallest.		
4. The table below show	ws the blood groups of	200 students.	
Blood group	Number of students		
О	94		
A	84		
В	16		
AB	6		
What percentage of st	udents had blood gro	up AB?	
A 3% B 6% C 12% D 53%			1
3. The following table sh commonly found in a liv		ple with four diff	erent viruses types mos
Viruses found	Number found in a	living room	
The flu	5		
Norovirus Herpes simplex	10		-
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1			
2			1
2			

Micro-organisms and you

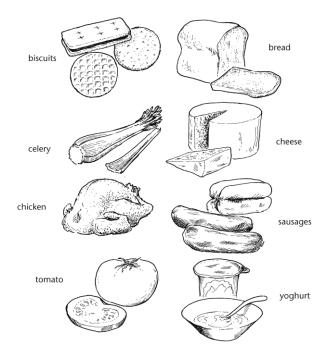
Homework 2

5. During baking, the sugar in the dough mixture is fed upon by yeast. This process is called fermentation. Complete the fermentation equation below:

Sugar + _____ + carbon dioxide+_____

- 6. Name the two products produced during respiration pathway.
- 7. Name a milk product that is made using the process of fermentation.
- 1
- 8. Which of the following is the micro-organism that is added to milk to make yoghurt?
 - a. yeast
 - b. bacteria
 - c. viruses

- 1
- 9. Here is a list of foods. List the ones that are made using micro-organisms.



1

10. Name the micro-organism used in brewing beer.

1

11. What gas from the air do the micro-organisms in bread dough produce?

1

1

12. Which 2 of the things below are required to make yoghurt? (Circle)

milk	yoghurt	viruses	
rennet	enzymes	bacteria	



13. Name one disease caused by:

a.	a	bacteria =







b. a fungi= _____

c. a virus= _____

1

14. Name two ways in which an infectious disease can be spread.



1



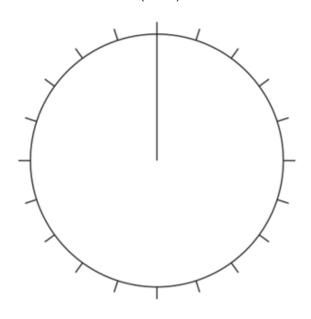
- 15. A hospital has a problem with MRSA. Suggest some measures they could take to stop the spread of diseases.
- 16. A micro-biologist was research the different types of cells found in the hospital waiting room, she found 600 cells. She found 230 fungal cells, 210 bacterial cells and 150 viruses.

Calculate the percentage of bacterial cells she found in the waiting room.



17. In the hospital there are different illnesses in ward 17 to 25. These disease are 35% MRSA, 25% vomiting, 15% dehydration, 5% diarrhoea, 20% Urinary Tract Infections (UTIs).





Micro-organisms and you

Homework 2

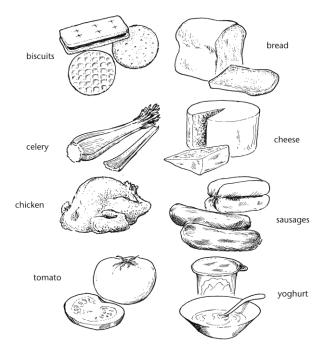
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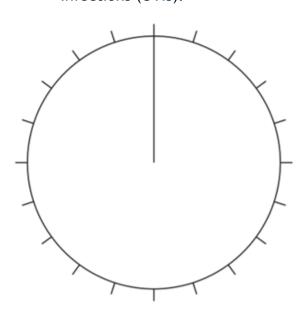
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Micro-organism
Virus
Fungus
Bacteria
Pathogens
White blood cells
Antibiotics
Immune
Vaccine

A microbe which must be in another
cell to replicate
Any micro-organism which can make
someone ill
Microscopic organism
The cells which destroy pathogens
A certain pathogen will no longer make
you ill, as you have those antibodies.
The micro-organism which is used to
make blue cheese
The micro-organism used for making
bread and which causes athletes foot
Medicine which will kill bacteria
What can be given in order to make
someone immune

Give two ways which micro-organisms can enter the body

•

2

Give two ways in which micro-organisms are stopped from entering the body

•

2

Describe how the 2 white blood cells destroy viruses.

2

Total /15