



1 INFECTIOUS DISEASES CONFERENCE



Now we are ready to apply what we have learned about microorganisms. Let's become doctors and study infectious diseases.



1 In groups, work as a team of doctors studying an infectious disease. What disease are you going to study?

2 In your groups, decide on a role for each person.

ROLE	NAMES AND TASKS
The illustrator	_____ will be in charge of the visual support.
The consultant	_____ will check that information is scientifically correct.
The researcher	_____ will look for information.
The editor	_____ will check that the language used is adequate and the pronunciation is correct.
Speakers	All group members are going to speak in the presentation.

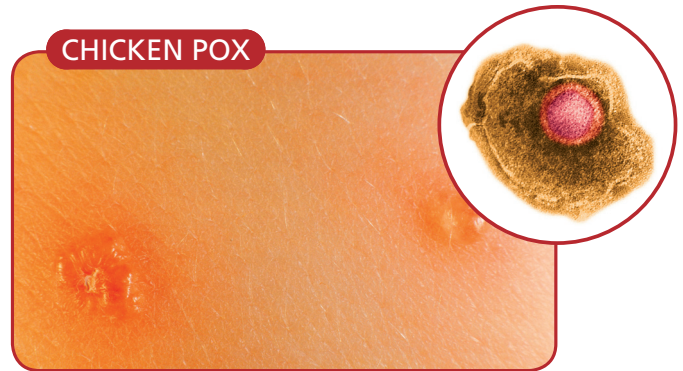
3 Look at the effects of harmful microorganisms. Choose one of the diseases and answer the questions.

TOOTH DECAY



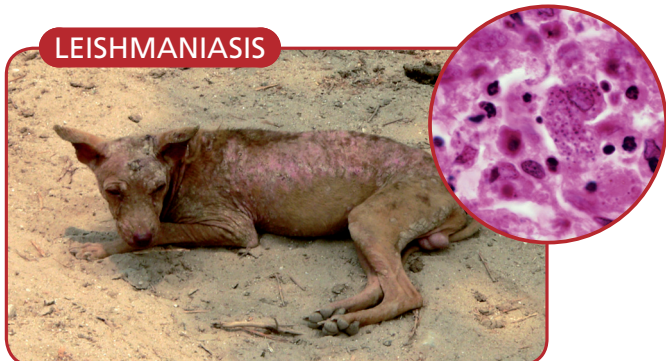
Bacteria: *Lactobacilli* and *Streptococci*

CHICKEN POX



Virus: *Varicella zoster*

LEISHMANIASIS



Protozoon: *Leishmania*

ATHLETE'S FOOT



Fungi: *Trichophyton*





NAME OF THE MICROORGANISM WHICH CAUSES THE DISEASE:

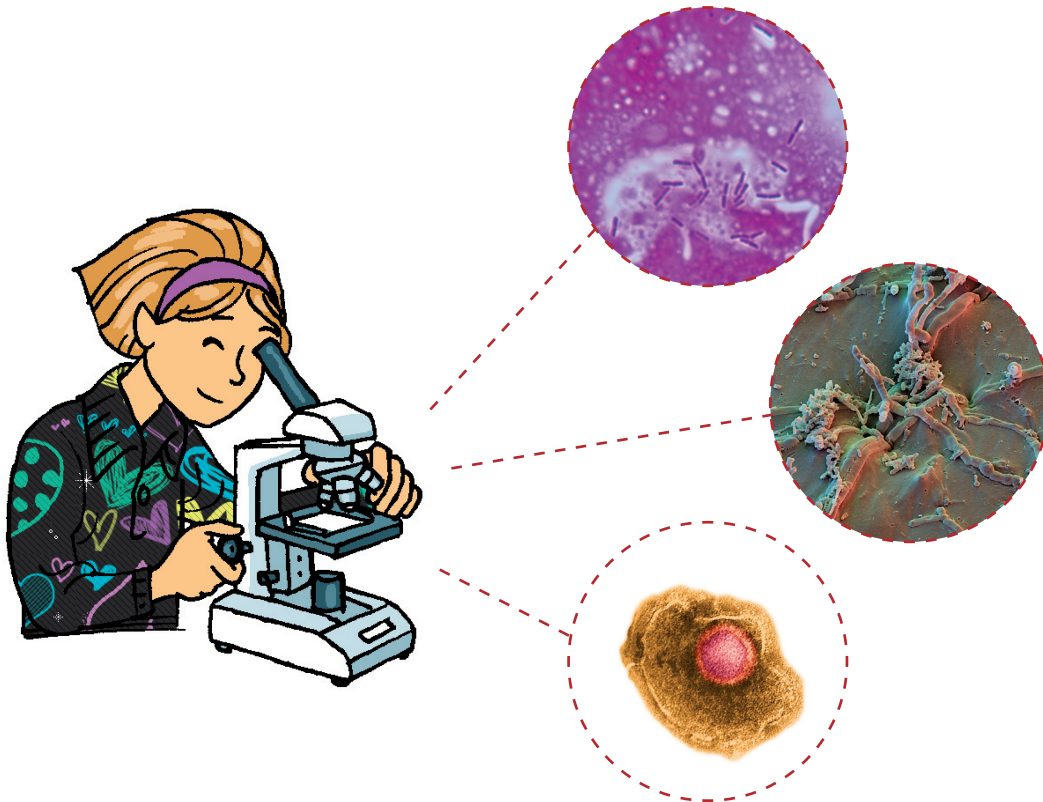
Is it a living thing? Justify your answer.

What type of microorganism is it?

Why is it considered to be a microorganism?

List the characteristics of this type of microorganism:

- _____
- _____
- _____
- _____





4 Look for more information about the disease.

What are the main symptoms?

- _____
- _____
- _____
- _____

What is the treatment?

- _____
- _____
- _____
- _____

What can you do to avoid infection?

- _____
- _____
- _____
- _____

5 Prepare your talk for the conference. Remember to prepare visuals to support your talk.

Parts	Consists of	Name
TITLE, NAMES and INTRODUCTION	Title of your presentation and names of all the members of your group. Name of the disease and origin.	
DESCRIPTION	Description of the microorganism which causes the disease.	
SYMPTOMS	What are the symptoms of the disease?	
TREATMENT	What is the treatment for this disease?	
PREVENTION*	What can be done to avoid catching this disease?	



This portfolio is for you to keep a record of your learning. You will include:

- 1 The objectives of the module linked to the activities
- 2 Opinions about the tasks
- 3 Final assessment results
- 4 Peer assessment on the final task
- 5 Self assessment of the work done

1 Objectives and activities

Objectives	Activities

2 Portfolio cards

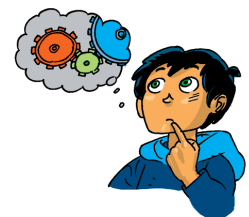
Title of the activity _____

This activity is important for me because _____



Title of the activity _____

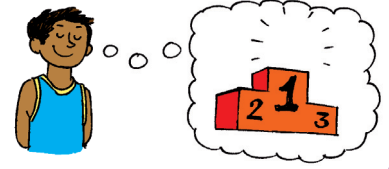
This activity was a big challenge for me because _____





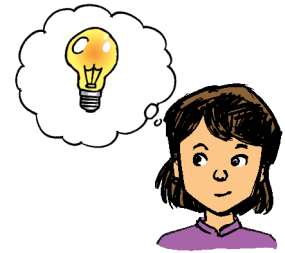
Title of the activity _____

I'm very proud of my work because _____



At the beginning I thought that _____

And now I know that _____



3 Final test

Mark	Comments	Improvement

4 Peer assessment and oral presentation

CONFERENCE	Very good	Good	Needs improvement	Recommendations
Organisation of the information.				
Accuracy of the visuals used to give support to the information.				
Use of clear language.				
Participation of all group members.				





5 Self-assessment. What do I know? What can I do?

I can ...	Very well	Well	Needs improvement
I can give basic information about flu, what causes it, its symptoms and treatment.			
I can define what a microorganism is and give some examples.			
I can use a microscope properly.			
I can carry out a scientific investigation and reach conclusions about my predictions.			
I can establish differences between beneficial and harmful microorganisms and give some examples for each group.			
I can describe some ways of trying to prevent infectious diseases.			
I can use simple texts to find information.			
I can work with my classmates in a collaborative way:			
• I can put forward my own ideas.			
• I can contribute to the group discussion.			
• I can draw conclusions.			
• I can listen to my group mates.			
I can communicate what I have learned about microorganisms in a scientific way.			
I can talk and write in English about microorganisms.			
I can do the tasks with interest and commitment.			
I can suggest how I can improve my work.			

6 Things I want to improve in the future





GLOSSARY

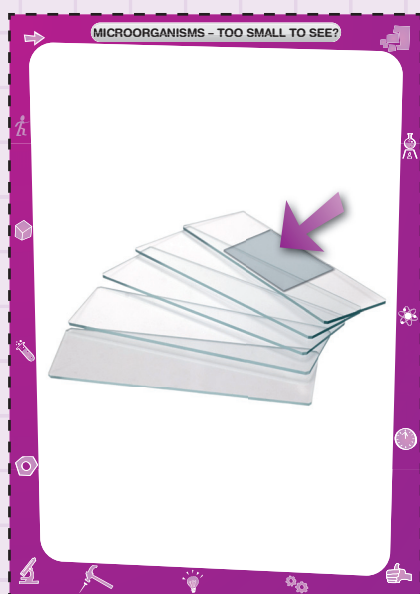
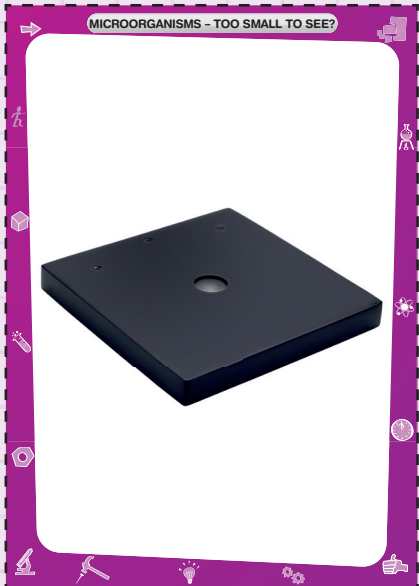


antibiotic	a substance that can destroy or inhibit the growth of bacteria. Antibiotics are used in the prevention and treatment of infectious diseases
avoid	to prevent something from happening
cell	the smallest unit of life. It performs the three basic functions: nutrition, interaction and reproduction
chill	to become cold, or to make someone or something become cold
contagious (illness/disease)	a disease transmitted by direct or indirect contact. A contagious disease is transmitted by contact with a patient suffering from it, or with some secretion of, or object touched by that patient
disease	an illness caused by an infection or other causes but not by an accident
ecosystem	all the living and non-living things in an area and the relationships between them and their environment
freezing	by a freezing process, food is cooled down till it is frozen to be preserved for a longer time
genetic material	material found in the nucleus of the cell. It contains the whole information of the microorganism
grow	to develop and become bigger or taller as time goes by
healthy	physically strong and well
high / medium / low	the three different positions of the objective lenses of a microscope. They change the magnification of the sample
host	a plant or animal in which another organism lives on as a parasite
illness	a disease of the body or mind
life cycle / cycle of life	the series of changes that a living thing goes through from the beginning of its life until it can reproduce and then die
perform	to do a job or function
prevent / prevention	to keep from happening, i.e. catching an illness. The act of stopping something from happening
sample	a very small amount of a substance which has been collected to be analysed
soil	the ground where plants grow
source	where something comes from or starts at
stereo microscope	an optical instrument with two eyepieces that magnifies samples being observed
survive	to continue to live after almost dying because of an accident, illness, etc.
waste	unwanted matter or material of any type. What remains of a material after it has been used
wrap	to envelop by folding or covering something





FLASHCARDS





MICROORGANISMS – TOO SMALL TO SEE?

3

©2012 Cambridge University Press

MICROORGANISMS – TOO SMALL TO SEE?

2

©2012 Cambridge University Press

MICROORGANISMS – TOO SMALL TO SEE?

1

©2012 Cambridge University Press

MICROORGANISMS – TOO SMALL TO SEE?

6

©2012 Cambridge University Press

MICROORGANISMS – TOO SMALL TO SEE?

5

©2012 Cambridge University Press

MICROORGANISMS – TOO SMALL TO SEE?

4

©2012 Cambridge University Press

MICROORGANISMS – TOO SMALL TO SEE?

9

©2012 Cambridge University Press

MICROORGANISMS – TOO SMALL TO SEE?

8

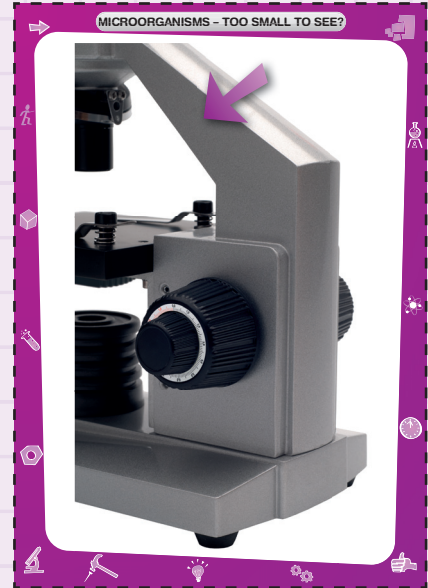
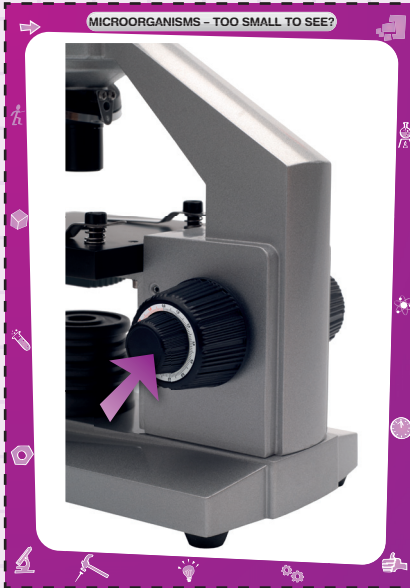
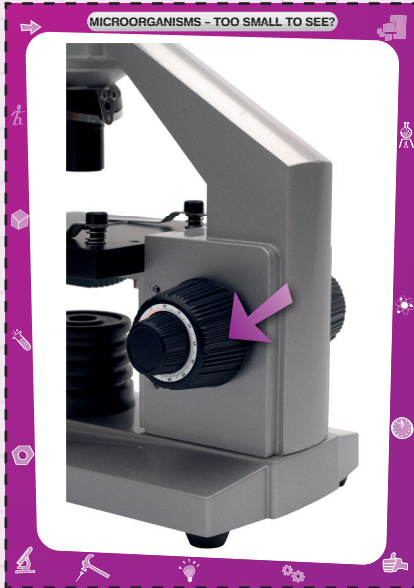
©2012 Cambridge University Press

MICROORGANISMS – TOO SMALL TO SEE?

7

©2012 Cambridge University Press





arm

base

coarse
adjustment
knob

cover slip

diaphragm

eyepiece





MICROORGANISMS - TOO SMALL TO SEE?

12

©2012 Cambridge University Press

MICROORGANISMS - TOO SMALL TO SEE?

11

©2012 Cambridge University Press

MICROORGANISMS - TOO SMALL TO SEE?

10

©2012 Cambridge University Press

MICROORGANISMS - TOO SMALL TO SEE?

15

©2012 Cambridge University Press

MICROORGANISMS - TOO SMALL TO SEE?

14

©2012 Cambridge University Press

MICROORGANISMS - TOO SMALL TO SEE?

13

©2012 Cambridge University Press

MICROORGANISMS - TOO SMALL TO SEE?

18

©2012 Cambridge University Press

MICROORGANISMS - TOO SMALL TO SEE?

17

©2012 Cambridge University Press

MICROORGANISMS - TOO SMALL TO SEE?

16

©2012 Cambridge University Press





MICROORGANISMS - TOO SMALL TO SEE?

fine
adjustment
knob

MICROORGANISMS - TOO SMALL TO SEE?

light source

MICROORGANISMS - TOO SMALL TO SEE?

objective
lenses

MICROORGANISMS - TOO SMALL TO SEE?

slide

MICROORGANISMS - TOO SMALL TO SEE?

stage

MICROORGANISMS - TOO SMALL TO SEE?

stage clips





MICROORGANISMS - TOO SMALL TO SEE?

21

©2012 Cambridge University Press

Microscope icon, person icon, cube icon, test tube icon, gear icon, thumbs up icon

MICROORGANISMS - TOO SMALL TO SEE?

20

©2012 Cambridge University Press

Microscope icon, person icon, cube icon, test tube icon, gear icon, thumbs up icon

MICROORGANISMS - TOO SMALL TO SEE?

19

©2012 Cambridge University Press

Microscope icon, person icon, cube icon, test tube icon, gear icon, thumbs up icon

MICROORGANISMS - TOO SMALL TO SEE?

24

©2012 Cambridge University Press

Microscope icon, person icon, cube icon, test tube icon, gear icon, thumbs up icon

MICROORGANISMS - TOO SMALL TO SEE?

23

©2012 Cambridge University Press

Microscope icon, person icon, cube icon, test tube icon, gear icon, thumbs up icon

MICROORGANISMS - TOO SMALL TO SEE?

22

©2012 Cambridge University Press

Microscope icon, person icon, cube icon, test tube icon, gear icon, thumbs up icon

