



KIDS' MICROSCOPE & BIOLOGY KIT

NEXT LEVEL CHALLENGES!



NAME:

1 POND TRAFFIC

You will need:

Microscope

Dropper

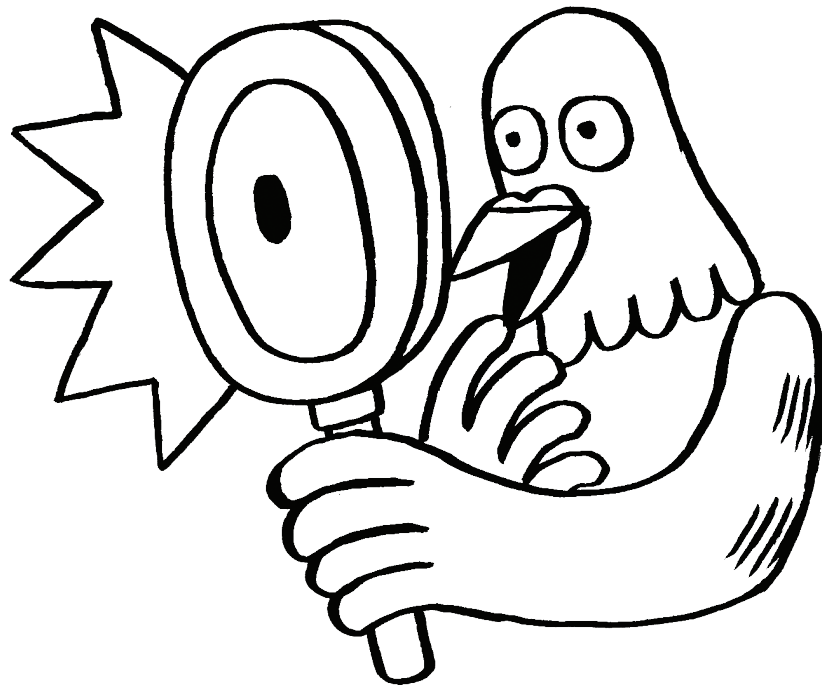
Blank slide and cover slip

Water from a pond, marsh, or other natural body of water

Here's how:

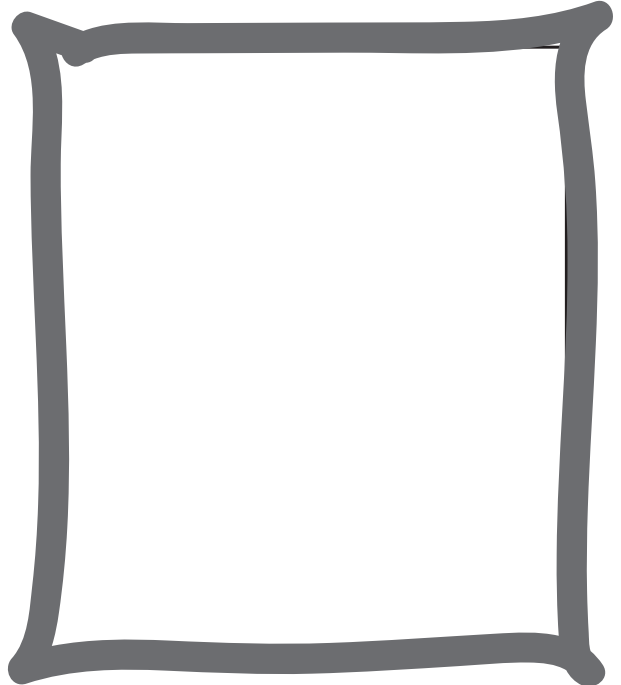
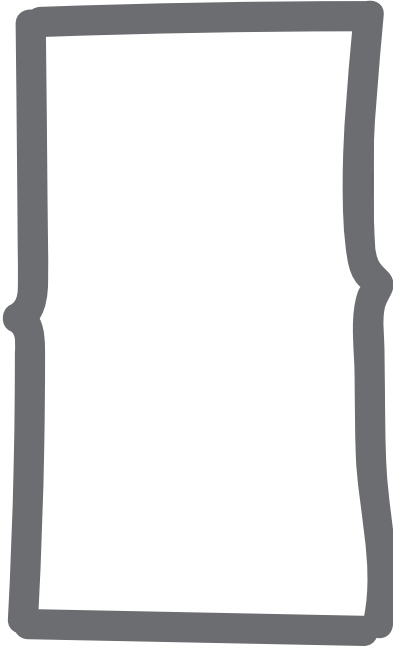
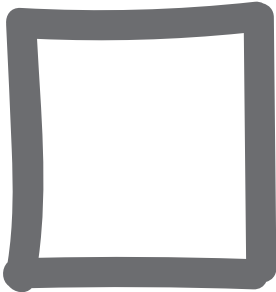
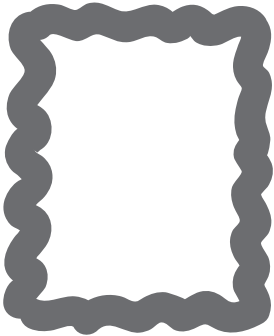
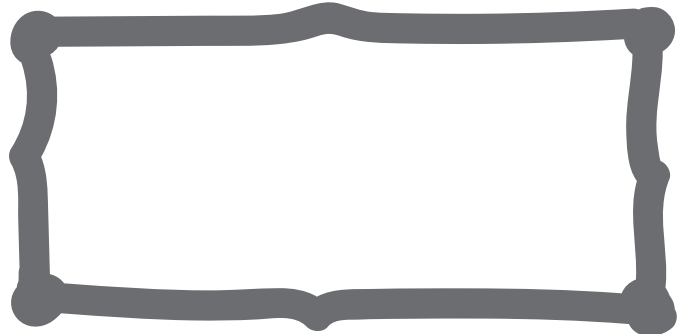
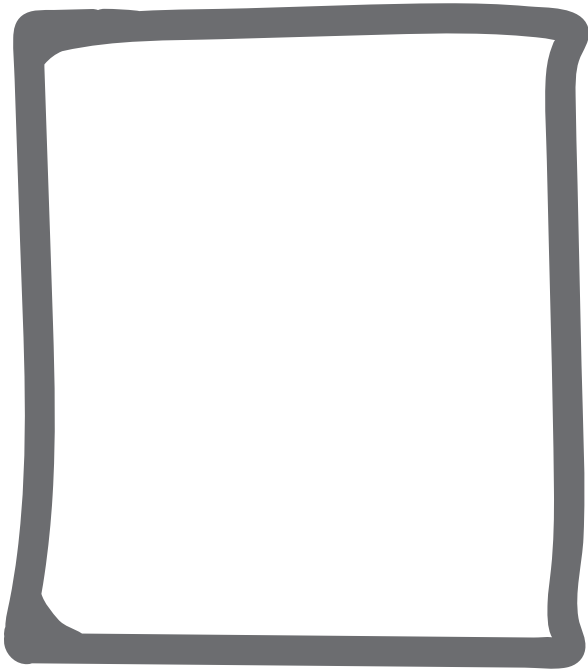
Collect a sample of pond water and prepare a slide following the instructions on page 7 of your manual. Skip step 6, because removing too much water could crush the organisms in your sample.

Observe the pond water under the microscope. The tiny blobby creatures you might see are called protists or protozoa. They are mostly unicellular microorganisms that are a vital part of the ecosystem, even though they are so small you need a microscope to see them! Protists are the most abundant life form in many aquatic environments. They produce oxygen and other compounds through photosynthesis, help in the decomposition process, and are a source of food for larger organisms (including insect larvae that you also might find in your sample).



FAMILY PHOTO ALBUM

Draw some of the organisms you see in your sample.



2 KEEP A SCIENTIFIC JOURNAL

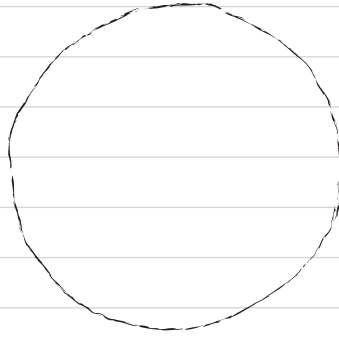
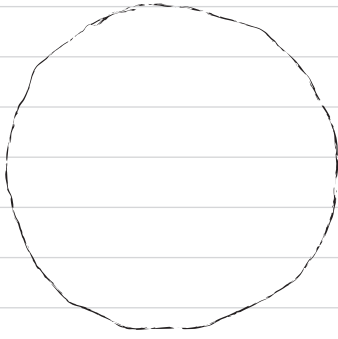
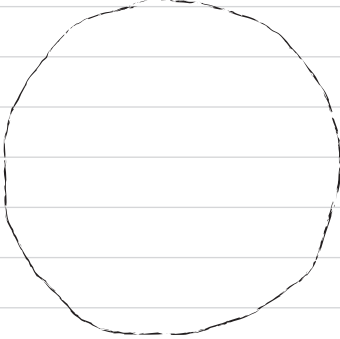
You will need:

Journal

Pens or pencils

Here's how:

Good scientists record their experiments and observations. Copy this template into your notebook or make your own.

<input type="radio"/>	<p>Sample material:</p> <p>Location collected:</p> <p>Date collected:</p> <p>Observations:</p>		
			
<input type="radio"/>	80x	360x	720x
	<p>Notes:</p>		

③ MICROSCOPE WORD SEARCH

B	K	L	O	X	N	B	P	O	E	A	X	S	O	M
T	O	T	T	U	O	X	L	S	R	H	P	B	D	A
S	H	D	W	Y	S	H	A	E	C	L	J	I	M	G
B	B	G	Y	Z	E	B	C	Z	D	E	A	H	S	N
J	W	K	I	A	P	E	Z	P	C	P	H	U	P	I
E	S	W	C	L	I	D	Q	T	H	W	U	U	I	F
L	G	R	H	P	E	Q	I	R	L	Q	Y	J	L	I
C	E	J	E	X	C	V	A	E	S	M	D	C	C	C
J	D	Y	O	V	E	G	A	W	N	T	X	T	E	A
M	E	V	J	L	M	Q	L	F	O	C	U	S	G	T
L	L	E	E	H	W	E	R	U	T	R	E	P	A	I
J	P	N	A	D	J	U	S	T	M	E	N	T	T	O
U	S	N	E	L	L	A	C	I	T	P	O	Z	S	N
E	X	K	W	T	O	Q	G	H	B	M	O	Q	F	G
Y	B	Y	G	J	Z	T	E	X	X	Q	U	A	X	N

ADJUSTMENT

APERTURE WHEEL

BASE

BODY

DIAPHRAGM

EYEPIECE

FOCUS

LIGHT

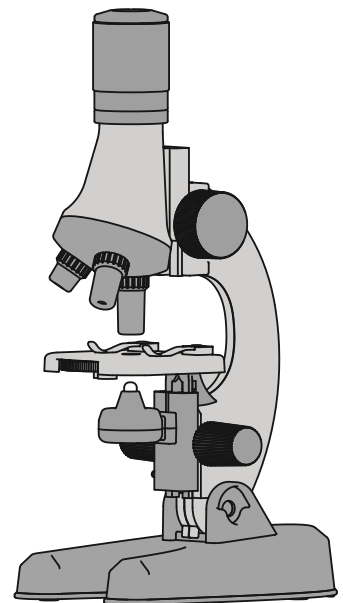
MAGNIFICATION

NOSEPIECE

OBJECTIVE LENS

OPTICAL LENS

FIND THE SOLUTION ON THE NEXT PAGE ...



Y B Y G J Z T E X X Q U A X N
E X K M T O Q G H B M O Q F G
U S N E L L A C I T P O Z S N
J P N A D J U S T M E N T T O
L L E E H W E R U T R E P A I
M E V J L M Q L F O C U S G T
J D Y O V E G A W N T X T E A
C E J E X C V A E S M D C C
L G R H P E Q I R L Q Y J L I
E S M C L I D Q T H W U U I F
J M K I A P E Z P C P H U P I
B B G Y Z E B C Z D E A H S N
S H D M Y S H A E C L J I M G
T O T T U O X L S R H P B D A
B K L O X N B P O E A X S O M