

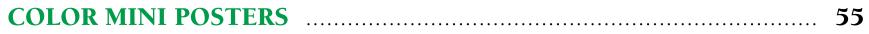
# **TEACHER GUIDE**

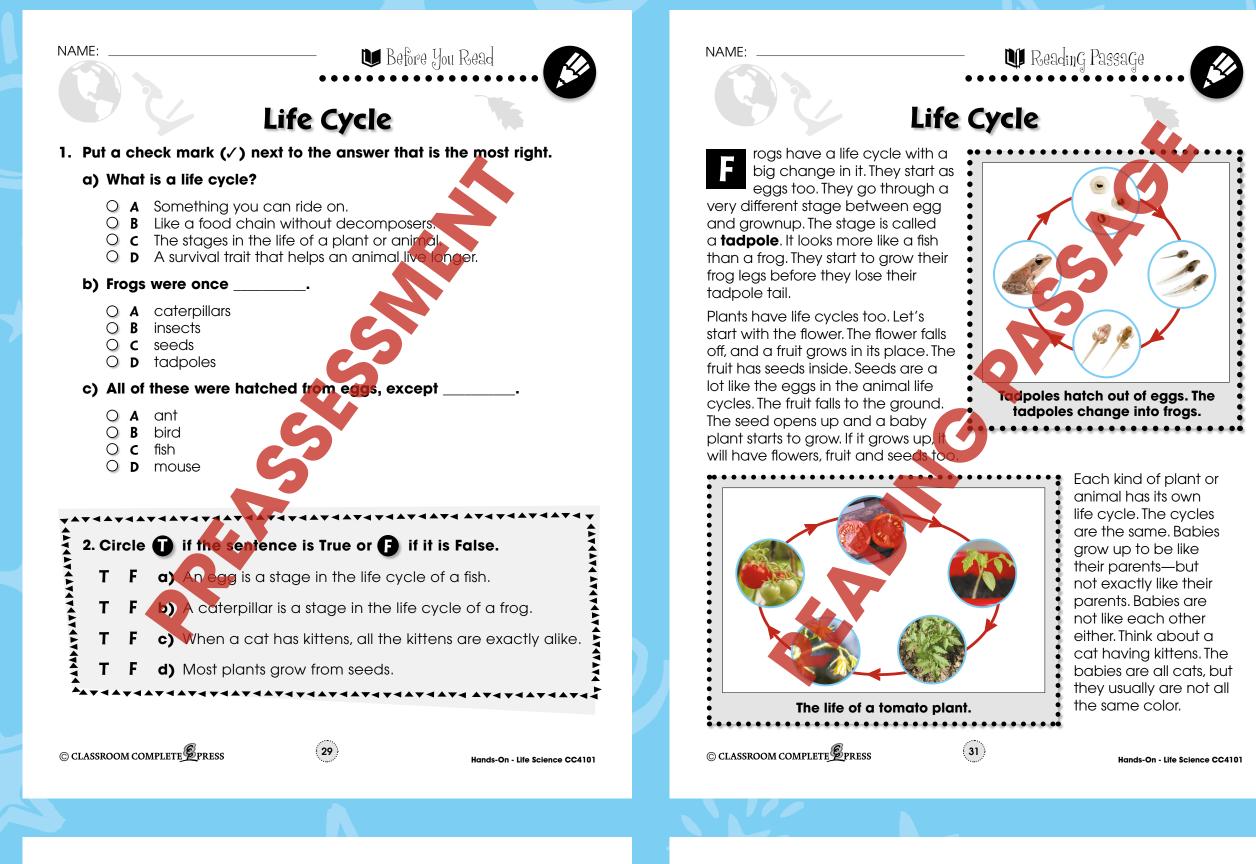
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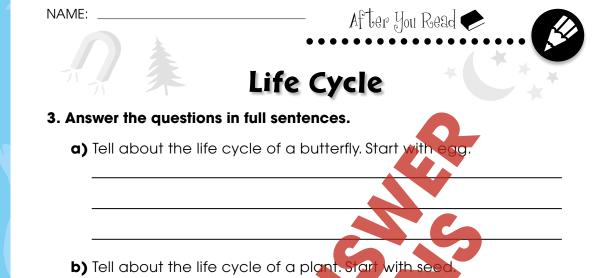
## **STUDENT HANDOUTS**

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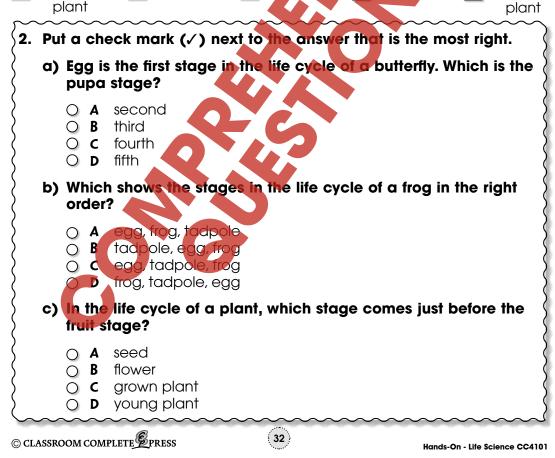
a) young

1 b) seed

**c)** fruit

d) flower

e) grown



#### Extension & Application

4. Look outside for a place where ants live. It might be a little hill of dirt or just a hole in the ground. Look at the ants. What stage or stages of the life cycle do you see? Don't touch the ant hill. That would be mean.

Now go on the internet and find the life cycle of an ant. Notice an ant has a life cycle a lot like a butterfly. The stage that is called caterpillar in butterflies is called larva in ants.

Look at the graphic organizer on page 34. All the stages in the life cycle of an ant are shown. Write the name of each stage next to its matching picture.

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**Study a Terrarium** 

Hands-On Experiment #2

This experiment can be done in pairs, groups or alone. Study food a energy in a terrarium.

This is the next step in your terrarium experiment. In the first experiment, you saw how to make an ecosystem. In this part, you will see how energy and matter move through the ecosystem.

The terra- part of terrarium means earth or land. The aqua- part of aquarium means water. So a terrarium is a land ecosystem. An aquarium is water ecosystem.

This is what you will need: All you need is the terrarium you made in Experiment One.

This is what you do:

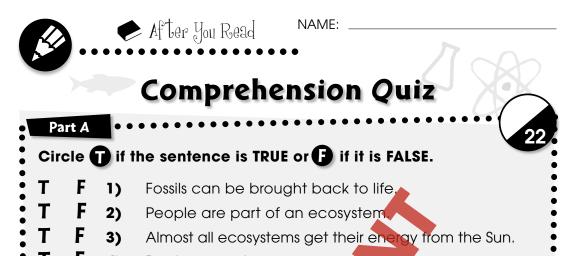
- 1. How does energy flow through your terrarium?
  - a) Where does it come from?
  - Who gets it first? b)
  - What becomes of i C)
- 2. Watch the plants for a few days. How fast are they growing?
- 3. Try leaving a light shining all day and all night for a while.
  - a) Did the plants grow faster with more light?
  - b) Did they grow slower?c) Explain what you saw.
- 4. Where dre the bugs getting their energy? How can you tell?
- 5. If there are no dead leaves on the top of the dirt, put some there. Watch what happens to the leaves over many days.

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- Are the leaves turning to dirt?
- b) Are the worms helping turn the leaves to dirt?

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Producers eat consumers. 4)

A survival trait is an adaptation that helps a plant or 5)

NAME:



### **Word Search**

Find all of the words in the Word Search. Words are written across, up, down, on an angle, and some are even written backwards.

										_		
adaptation	Α	E	L	0	Ρ	D	А	T	A	R	В	L
chrysalis	S	D	С	D	Е	Р	N	R	E	S	F	I
consumer	E	E	А	G	U	Е	Æ	C	R	Т	Н	F
decomposer	N	С	1	Р	L	Т		S	Е	Ν	S	E
ecosystem energy	S	0	J	L	Т	D	M	К	М	E	U	С
fossil	E	М	0	A	6	A	E	E	U		R	Y
life cycle	0	P	М	R		М	Т	N	S	R	V	С
nerve	R	0	P	0		S	S		N	T		L
nervous system	G	S	P	Q	Y		Y	R	0	U	V	E
nutrients	A	E	S	S	D		S	Т	С	N	A	
pollen	N	R	0	V	E	A	S	S	W	X	L	V
pollination producer	z		A	В	T	S	U	C	0	D	 T	E
pupa	E	N	E	R	G	Ŷ	0	F	G	F	R	E
sense												
sense organ	H		A	J	W	R	V	K	L	Μ	A	V
survival trait	Ν	I	0	Р	Х	Н	R	Q	R	S	Ι	R
tadpole	Т	Т	U	V	Y	С	E	Z	А	В	Т	E
trait	С	Р	0	L	L		N	А	Т		0	N
Ø					ν.							

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### **Finches and Food Adaptations**

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- animal live.
- A pupa is a stage in the life cycle of a frog. 6)
- 7) The tongue is a sense organ.

#### Part B

Put a check mark ( $\checkmark$ ) next to the answer that is the most right.

#### a) Which tells what an ecosystem is?

- O A A part of the body that helps an animal live.
- O **B** An animal that gives back nutrients to the ground.
- O C What's left of a plant that has turned to stone.
- O **D** A group of plants and animals that live together.
- b) A boy is walking in the woods and sees a bear. He decides to run away from it. To which body part does his brain send a message?



