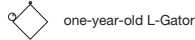


Student Activity Book

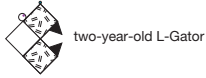
Name _____ Date _____

L-Gator

The L-Gator is only one square when it is one year old.



It has no teeth at first. By the second year it grows two teeth.



1. How many squares does an L-Gator have when it is two years old? _____

By the third year, the L-Gator looks a little dangerous.



2. How many teeth does a three-year-old L-Gator have? _____
3. How many squares does a three-year-old L-Gator have? _____
4. How many teeth does an L-Gator grow each year? _____

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**L-Gator (SAB pp. 797–798)
Questions 1–10**

1. * 3 squares
2. * 4 teeth
3. * 5 squares
4. * 2 teeth
5. 8 teeth, 9 squares
6. Solutions will vary. Students might start with 4 teeth at age 3, add 2 teeth for age 4 (6 teeth), and 2 more teeth for age 5 (8 teeth). There are 9 squares at age 5.
7. 10 years old
8. * 11 years old
9. * 26 years old
10. A 1 year old has no teeth. Two teeth are grown every year. So there are $99 + 99 = 198$ teeth. There is one more square than teeth. 199 squares and 198 teeth.

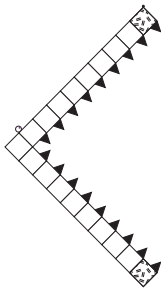
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Name _____ Date _____

5. Without drawing a five-year-old L-Gator, how many teeth and squares do you think it would have? _____

6. How did you find the answer? _____

7. How old is the L-Gator below? _____



8. How old would an L-Gator be if it had 21 squares? _____
9. How old would an L-Gator be if it had 51 squares? _____
10. How can you find out how many teeth and squares a 100-year-old L-Gator would have? _____

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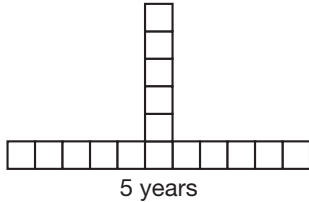
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*Answers and/or discussion are included in the lesson.

Three-Winged Blue Bird (SAB pp. 799–800)

Questions 1–5

1. 7 squares
2. 3 squares
- 3.



4. 31 squares. Solutions will vary. Possible response: A 5-year old has 16 squares. Three squares are added every, so I added $16 + 3 + 3 + 3 + 3 + 3 = 31$.
5. 13 years old. Solutions will vary. Possible response: If a 10-year old has 31 squares, then I know that 9 squares were added: $40 - 31 = 9$. If 3 squares are added each year, that's 3 more years: $10 + 3 = 13$ years.

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Name _____ Date _____

Three-Winged Blue Bird

The Three-Winged Blue Bird has four squares when it is one year old.

1. How many squares does it have when it is two years old?

2. How many squares does a Three-Winged Blue Bird grow each year? _____
3. Draw a five-year-old Three-Winged Blue Bird.

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Name _____ Date _____

4. How many squares does a ten-year-old Three-Winged Blue Bird have? _____ Show your work.

5. How old is a Three-Winged Blue Bird with 40 squares?
_____ Show your work.

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
Name _____ Date _____

Double Worm

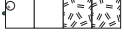
This is how a One-Eyed Double Worm looks when it is born.

 At Birth

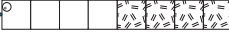
The next year, the One-Eyed Double Worm is twice as large.

 1 year

The year after that, it doubles in length again.

 2 years

It keeps on growing, getting twice as large every year.

 3 years

- Do you think a One-Eyed Double Worm as old as you would be very big? _____ Explain. _____

- How long would an eight-year-old One-Eyed Double Worm be? _____ Show your work.

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
Student Activity Book - Page 801

Name _____ Date _____

- Would you like to meet a One-Eyed Double Worm that is 10 years old? _____ Explain. _____

✓ Check-In: Questions 4-7

There are many kinds of Double Worms on Gzorp. All the different kinds of Double Worms grow twice as long every year. Double Worms always grow in a straight line. Here is a Three-Eyed Double Worm at birth.



- Draw a picture of the Three-Eyed Double Worm when it is one year old.
- How many squares will it have when it is four years old? _____ Show your work.

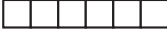
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Student Activity Book - Page 802

Double Worm (SAB pp. 801–803)

Questions 1–7

- Answers will vary. Possible response: Yes, because it doubles its length each year.
- 256 squares long; Solution strategies will vary. Students might see that the double worm doubles each year and create a data table to chart its growth or use a calculator.
- Answers will vary. Probably not since it would be very large (1,024 squares).
- 
1 year
- 48 squares. Possible solution: I made a data table

Double Worm Growth

Age	Number of Squares
birth	3
1	6
2	12
3	24
4	48
5	96
6	192

- 6. 5 years old. Possible solution: See data table above. Each year the number of squares doubles.
- 7. 192 squares. Possible solution: I looked at the data table.

Name _____ Date _____

6. How old is a Three-Eyed Double Worm with 96 squares?
_____ Show your work.

7. How many squares will it have when it is six years old?
_____ Show your work.

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Student Activity Book - Page 803

Name _____ Date _____

Double Worm
Check-In Questions 4-7
Feedback Box

	Expec- tation	Check In	Comments
Identify and extend patterns represented in numbers and in geometric patterns. [8# 4-7]	E1		
Recognize patterns and functions using words and tables. [9# 4-7]	E2		

	Yes ...	Yes, but ...	No, but ...	No...
MP12 Find a strategy, choose a tool, and use a strategy for solving the problem. [9# 7]				
MP15 Show your work. I show my work and explain my answer so someone else can understand my thinking. [9# 6-7]				

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Name _____ Date _____

Three-Eyed Exopus


Homework

Dear Family Member:
 In class, we have been identifying, describing, and extending number patterns.
 To solve the problems, your child can draw a picture, make a data table, or use
 addition strategies.
 Thank you.

The Three-Eyed Exopus has five squares when it is one year old. It
 has nine squares when it is two years old.



1 year



2 years

1. How many squares does it grow each year? _____
2. Draw a four-year-old Three-Eyed Exopus.

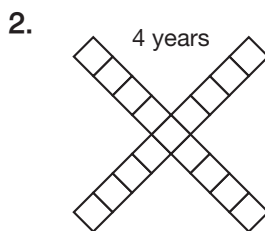
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TG • Grade 2 • Unit 15 • Lesson 3 Homework Master

Teacher Guide

**Three-Eyed Exopus (TG pp. 1–2)
 Homework
 Questions 1–4**

1. 4 squares.



3. 41 squares; Solution strategies will vary.
 Students might consider the Exopus as having
 4 arms each the number of years it has long.
 ($4 \times 10 + 1$ for the eyes = 41)

4. 8 years old

Teacher Guide - Page 1

Name _____ Date _____

3. How many squares does a ten-year-old Three-Eyed Exopus
 have? _____ Show your work.

4. How old is a Three-Eyed Exopus with 33 squares?
 _____ Show your work.

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Homework Master TG • Grade 2 • Unit 15 • Lesson 3 2

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