Name _____ Date _____

L-Gator

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

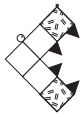
one-year-old L-Gator

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

two-year-old L-Gator

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.


three-year-old L-Gator

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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Name _____ Date _____

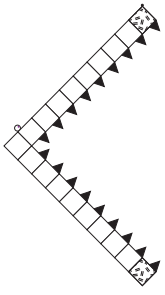
5. Without drawing a five-year-old L-Gator, how many teeth and squares do you think it would have? _____

_____

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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Student Activity Book

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.

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

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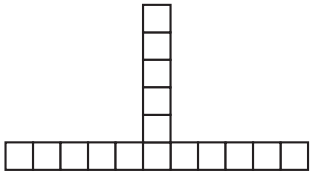
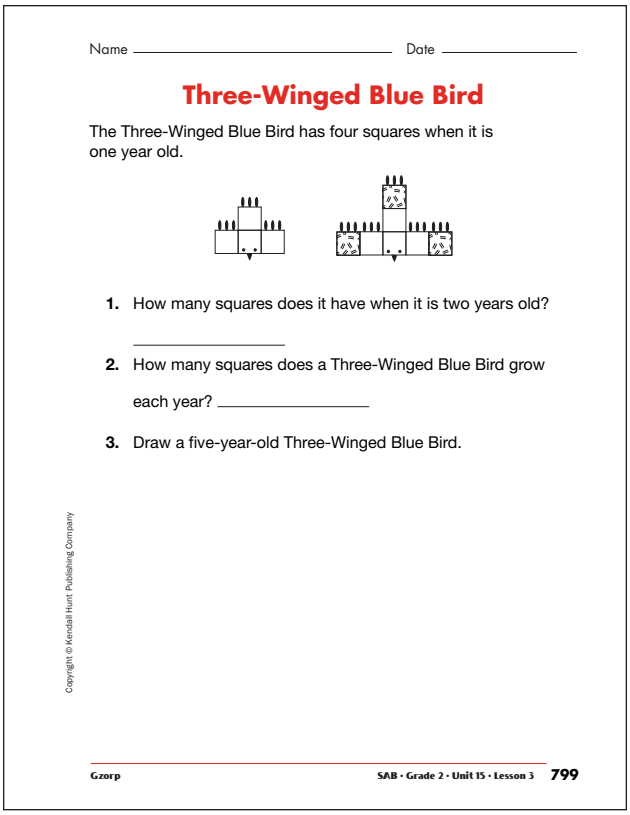
Three-Winged Blue Bird (SAB pp. 799–800)
Questions 1–5

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.



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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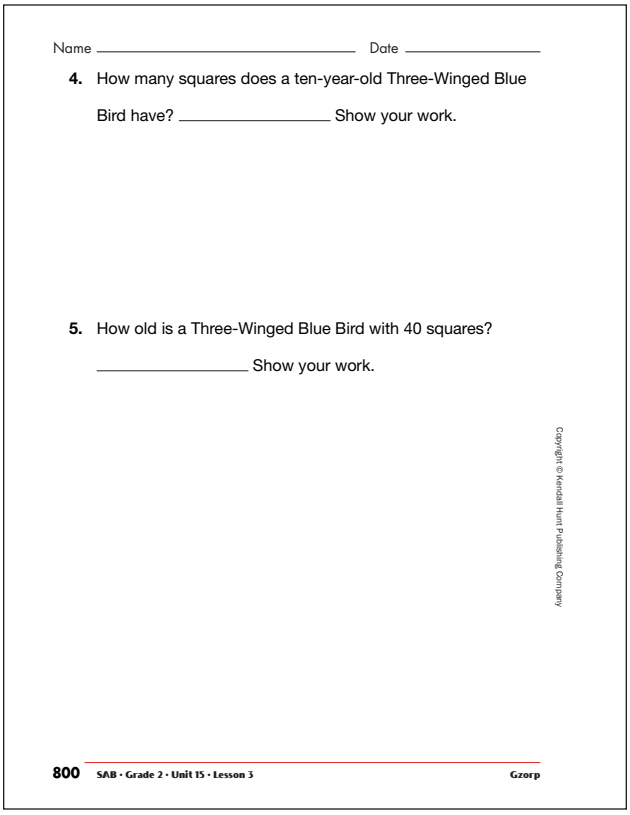

Name _____ Date _____

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

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

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

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Name _____ Date _____

3. 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.

4. Draw a picture of the Three-Eyed Double Worm when it is one year old.

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

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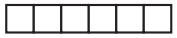
Double Worm (SAB pp. 801–803)
Questions 1–7

1. Answers will vary. Possible response: Yes, because it doubles its length each year.
2. 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.
3. Answers will vary. Probably not since it would be very large (1,024 squares).
4. 
   1 year
5. 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

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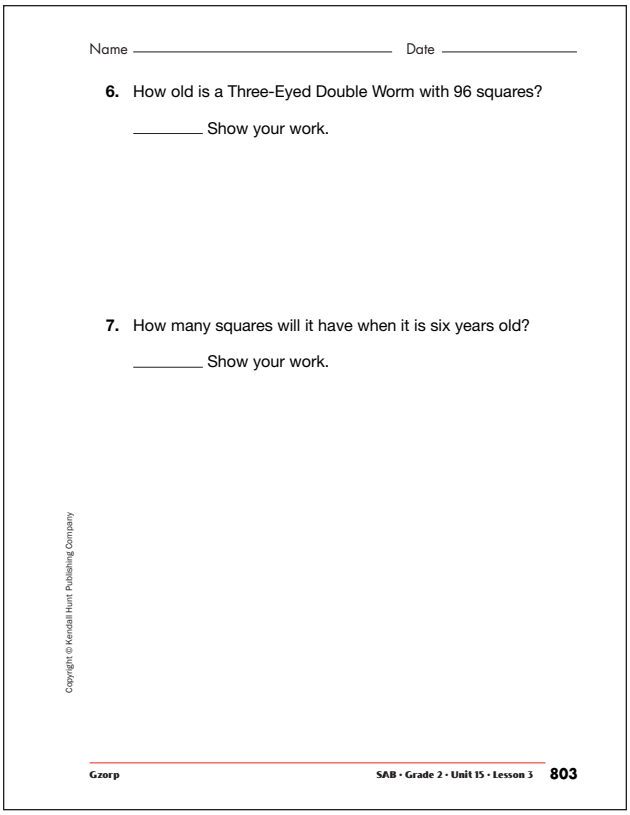
6. 5 years old. Possible solution: See data table above. Each year the number of squares doubles.
7. 192 squares. Possible solution: I looked at the data table.



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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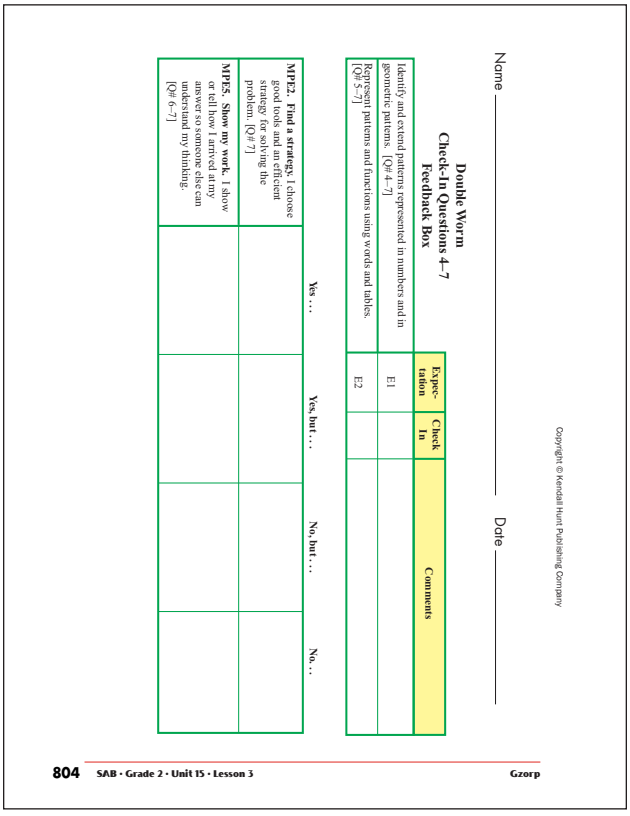

Name _____ Date _____

Double Worm
Check-In Questions 4–7
Feedback Box

Expectation	Check In	Comments
E1		
E2		

Identify and extend patterns represented in numbers and in geometric patterns. [Q# 4–7]

Represent patterns and functions using words and tables. [Q# 5–7]

MPE2. **Find a strategy.** I choose good tools and an efficient strategy for solving the problem. [Q# 7]		Yes . . .
MPE5. **Show my work.** I show or tell how I arrived at my answer so someone else can understand my thinking. [Q# 6–7]		Yes, but . . .
		No, but . . .
		No . . .

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