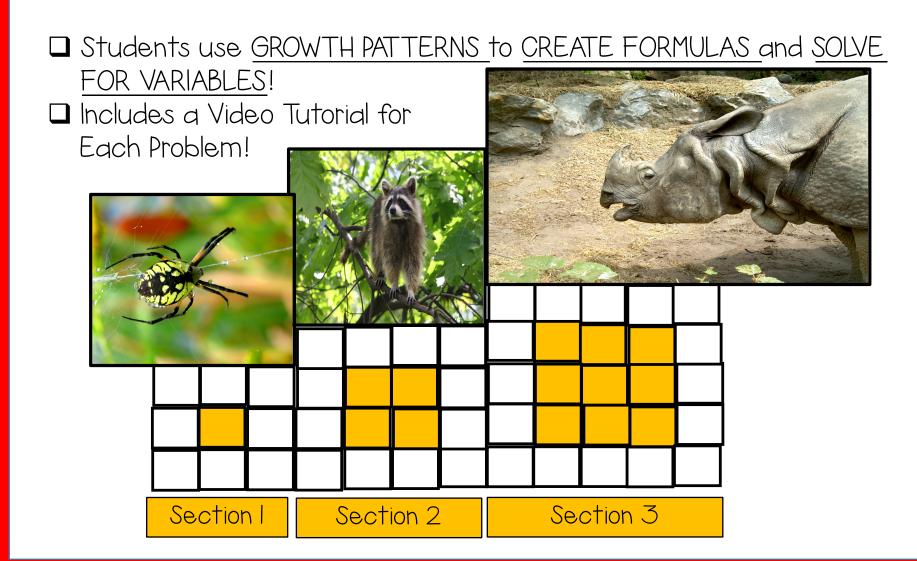
THE GREAT WALL

CHALLENGE 8



THE GREAT WALL How to use this Book

Teachers

☐ Upload this PDF into your Google Classroom.

Students

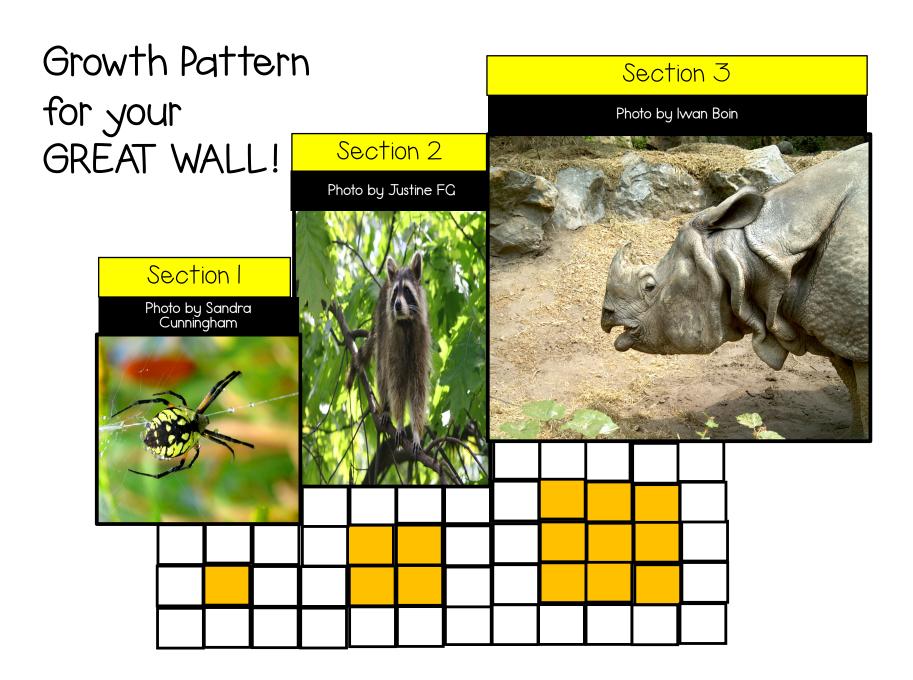
- ☐ Complete each problem.
- ☐ Correct your own work, while watching the video tutorials.
- ☐ After correcting your work, take your paper to your teacher for a final check.

THE GREAT WALL CHALLENGE 8

Silvia the Silk Weaving Spider, Renly the Robbing Racoon, and Thor the Thirsty Rhino are headed toward your school!

Silvia the Silk Weaving Sider is about to wrap your entire school in a thick web that will trap students as they try to enter the school. Renly the Robbing Racoon has his eye on all the lunch boxes filled with tasty treats. He plans on stealing all the lunches and taking them home to his family of robbing racoons. And, Thor the Thirsty Rhino is headed directly toward your drinking fountain. He has a powerful thirst and will drink it dry, leaving no water for any student. But that's not the worst of it - more animals are coming! You have just been told that there are 37 different animals attacking your school.

Lucky for you — your school architects have designed a wall that will protect your schoolmates. The white blocks form the perimeter and send a forcefield through the center yellow area. The forcefield will keep all these dangerous animals out. Your job, as School Mathematician, is to discover how many bricks are needed to build your GREAT WALL!



Each white square counts as one block!
Each yellow squares are NOT there! The Yellow squares are a see through forcefield.

ON YOUR OWN Step A

Follow these Steps:

- I. Refer to the prior page. Copy the first three Sections of the GREAT WALL on your paper.
- 2. Based on the pattern, figure out the 4th section of the wall and draw that section next to the first three sections.

This is an On Your Own problem. Complete the problem.

Then Click the link below.

Click on Renly the Robbing Racoon



ON YOUR OWN

Step B

Follow these Steps:

- I. Create a T-Chart that shows the number of blocks needed to build the 7th section.
- 2. Solve for the Iterative Function, which is also the Co-Efficient.
- 3. Color the Co-Efficient blue on each section that you drew.
- 4. Color the constant red on each section that you drew.

This is an On Your Own problem. Complete the problem.

Then Click the link below.

Click on Silvia the Silk Weaving Spider



ON YOUR OWN Step C

Create two formulas!

- Use your iterative function to create your first formula.
- 2. Use what you know about **squared numbers** to create a second formula.

Test both formulas against section 5, section 6, and section 7 to make sure that they agree with your T-Chart!

This is an On Your Own problem. Complete the problem. Then Click the link below.

Click on Renly the Robbing Racoon



ON YOUR OWN

Step D

Your school scientists have just discovered more animals!
There are 37 different types of animals attacking your school.
You need a section for each animal.
How many blocks are needed to build the

37th

section?

*** Use both formulas to solve for this last section of your great wall! ***

This is an On Your Own problem. Complete the problem.

Then Click the link below.

Click on Thor the Thirsty Rhino



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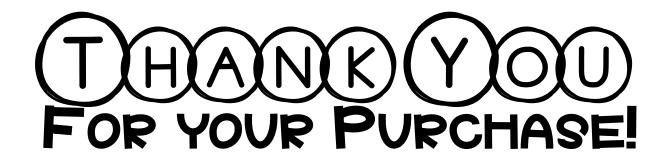
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