

Welcome to
class!
COME IN.
GRAB YOUR
COMPUTER &
WAIT FOR

DIRECTIONS

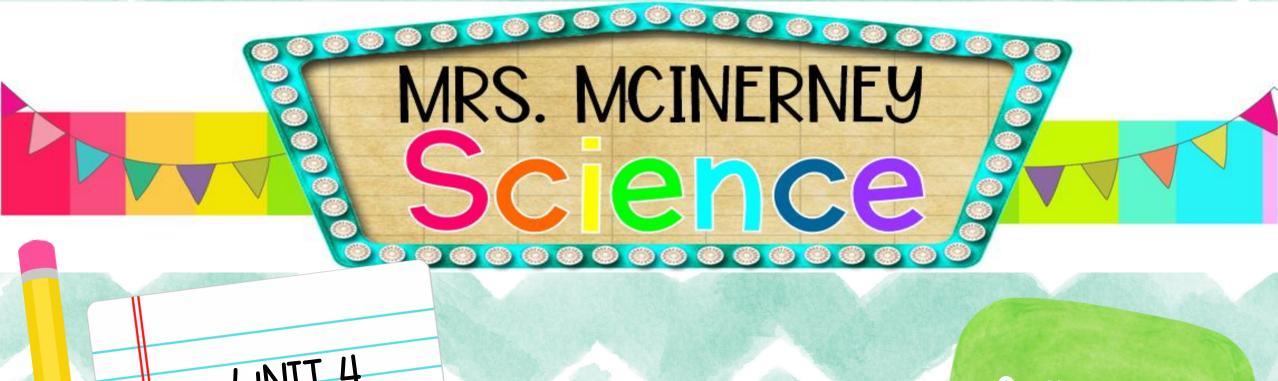
Desk

2.

CLICK HERE TO

WATCH THE

MORNING NEWS!



UNIT 4
PROPERTIES
OF MATTER

PROPERTIES

Go through the next 3 slides and watch the two videos about matter!

WHATISMAND

MATTER is anything that takes up space.

MATTER

ANYTHING THAT HAS WEIGHT AND TAKES UP

MATTER can be sorted into 3 states. Liquids, solids and gases.





HOW DO WE KNOW air or gas is there if we can't see it?

PHYSICAL PROPERTIES





PROPERTIES ARE
OBSERVABLE,
MEASURABLE
CHARACTERISTICS

A **PHYSICAL PROPERTY** is a characteristic of matter that you can observe or measure directly.

Any characteristic you can use to describe matter.

PHYSICAL PROPERTIES



LENGTH

DISTANCE OF SOMETHING FROM END TO END



WIDTH

DISTANCE OF SOMETHING FROM SIDE TO SIDE



HEIGHT

THE DISTANCE OF AN OBJECT FROM ITS BOTTOM TO ITS TOP



VOLUME

THE AMOUNT OF SPACE TAKEN UP BY SOMETHING

A **PHYSICAL PROPERTY** is a characteristic of matter that you can observe or measure directly.



LET'S PRACTICE FINDING PERIMETER!



- Pass out 11.3 lesson packet
- Continue through the slides to go through the Math Lesson as a class

CHAPTER 11

Lesson 3

Florida's B.E.S.T.

- Geometric Reasoning 3.GR.2.3
- Mathematical Thinking & Reasoning MTR.1.1, MTR.2.1, MTR.4.1, MTR.5.1,



UNLOCK the Problem Real World



Julio is putting a stone border around his rectangular garden. The length of the garden is 7 feet. The width of the garden is 5 feet. How many feet of stone border does Julio need?

(I Can) use a formula to find the perimeter of a rectangle.

Use a Formula to Find Perimeter

Perimeter is the distance around a shape.

To find how many feet of stone border Julio needs, find the perimeter of the garden.

Use addition.

Perimeter of a Rectangle = length + width + length + width

The perimeter is _____ feet.

feet of stone border. So, Julio needs

Use multiplication.



Perimeter = $(2 \times length) + (2 \times width)$



Perimeter =
$$(2 \times 12) + (2 \times 8)$$

So, the perimeter is ____ units.

- · Circle the numbers you will use.
- · What are you asked to find?



B Find the perimeter of a square.

Perimeter = $4 \times$ one side



Perimeter = 4×6

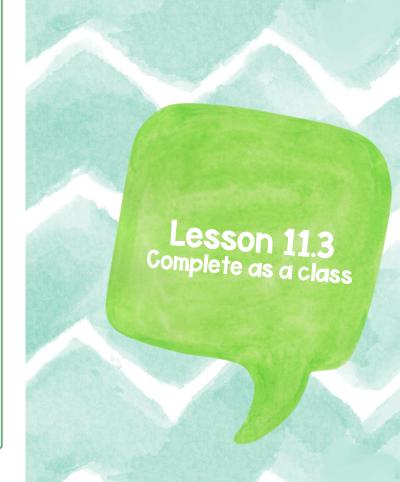
So, the perimeter is



MTR Engage in discussions on 4.1 mathematical thinking.

How is using addition and using multiplication to find the perimeter of a rectangle related?

Chapter 11 • Lesson 3 521





Use a Formula A formula is a mathematical rule. You can use a formula to find perimeter.

$$P = (2 \times \ell) + (2 \times w)$$
 $\uparrow \qquad \uparrow$
perimeter length width

width

9 m

7 m

Example Find the perimeter of the rectangle.

$$P = (2 \times \ell) + (2 \times w)$$

= $(2 \times _____) + (2 \times _____)$ Think: Write the measures you know.
= $____ + ____$ Think: Do what is in parentheses first.

The perimeter of the rectangle is _____ meters.

1. Can you use the Distributive Property to write the formula $P = (2 \times \ell) + (2 \times w)$ another way? Explain.

Lesson 11.3 Complete as a class

Share and Show



1. Find the perimeter of the rectangle.

$$P = (2 \times \ell) + (2 \times __)$$

= $(2 \times __) + (2 \times __)$
= $_+$

8 ft

4 ft

The perimeter is _____feet.

Find the perimeter of the rectangle or square.

2.



⊙3.



meters

Formulas for Perimeter

Rectangle:

$$P = (2 \times \ell) + (2 \times w)$$
 or $P = 2 \times (\ell + w)$

Square:

$$P=4\times s$$



₫4.

MTR Apply mathematics to 7.1 real-world contexts.

What does yd stand for? What does m stand for?

4 m

meters

4 m

Share and Show:

Complete all questions as a class

On Your Own

 $P = (2 \times \ell) + (2 \times w)$ to find the perimeter of a square? Explain.

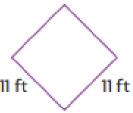
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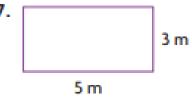
5.

2 yc

yards

6.





meters

8. Robert wants to put lights around the front of his house. The house is 12 yards long and 7 yards high. How

many yards of lights does he need?

9. What is the perimeter of a square with a side length of 10 meters?

On Your Own:

Students Complete numbers

5-9

8.1	_	 _	

LESSON 11.3

Practice and Homework



Use a formula to find the perimeter of the rectangle or square.

1. ______3 in. 9 in.

 $P = (2 \times \ell) + (2 \times w)$ = $(2 \times 9) + (2 \times 3)$



Use a Formula to Find Perimeter





24_inches

= 18 + 6= 24

meters

____feet

Problem Solving Real

4. Troy is making a flag shaped like a square. Each side measures 12 inches. He wants to add ribbon along the edges. He has 36 inches of ribbon.

Does he have enough ribbon? Explain.

5. The width of the Ochoa Community Pool is 6 yards. The length is 12 yards. What is the perimeter of the pool?

WRITE Math Viviana says the perimeter of her bedroom is 46 feet. Her room is 11 feet long and 12 feet wide. Is she right? Explain.

Chapter 11 • Lesson 3 525

Lesson Check

- 7. What is the perimeter of a square window with sides 3 feet long?
- 8. What is the perimeter of the rectangle?



Spiral Review

9. Round to the nearest hundred.

372

10. Find the unknown number.

 $m \times 12 = 84$

m =

11. Find the unknown number.

 $v \div 11 = 9$

12. Zahara scores 24 points during a basketball game. Two of her baskets are 3-point shots. She scores the rest of her points with 2-point baskets. How many 2-point baskets does Zahara score during the game?

of the second

Students complete 11.3 classwork independently

Enter answers in Canvas Week 7→Wednesday



When you are finished...

- 1) TODAY'S
 CLASSWORK
- 2) UNFINISHED WORK
- 3) REFLEX
- 4) WAGGLE, AR, OR LEXIA

O COMPLETE

ANYTHING IN YOUR

BLUE FOLDER

REFLEX THEN WAGGLE, AR, OR LEXIA



Pack up your > Chromebook and supplies and line up at the front door to head to Mrs. Grauer's Class

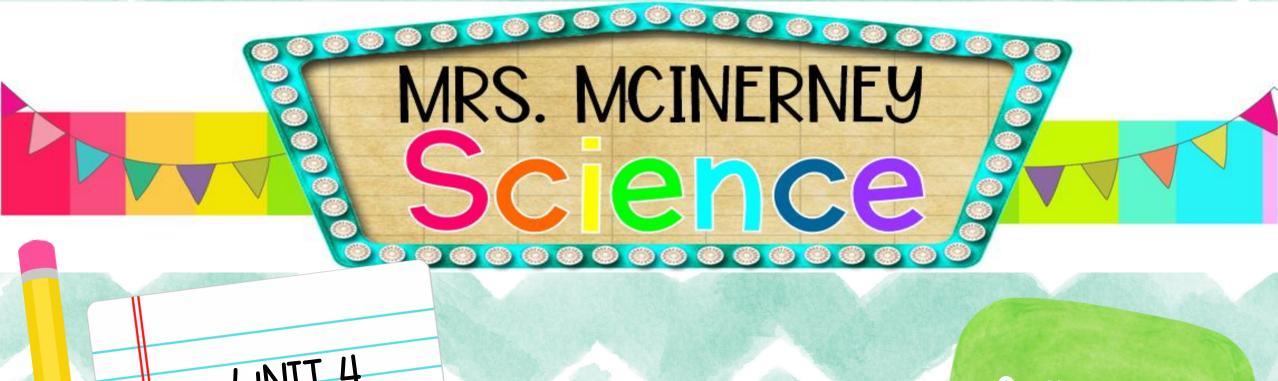




Welcome to class! COME IN. HAVE A SEAT

LAPTOPS
UNDER
CHAIRS

EVERYTHING PUT AWAY AND READY TO LEARN



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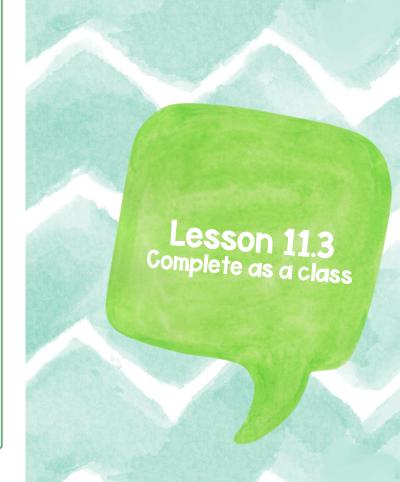
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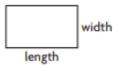
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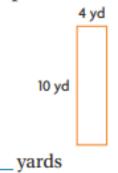
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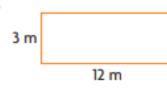
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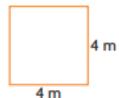


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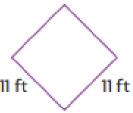
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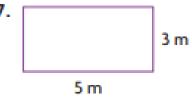
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