Cohen Middle School 100 Robinwood Avenue Elmira Heights, NY 14903 734-5078

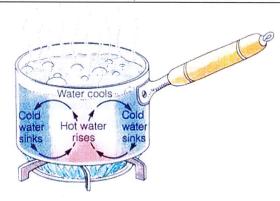
Name:	Date: March 13, 2020
Math:	2 Step Equations
Social Studies:	
	- 4 Governments of Greece
	HW: Owed Work
ELA:	Daily Warm of
	Finish Orline Quiz
	Finish Chline Quiz Conjunctions - abaya.com
Science 🕠 🗸	Eview page 10 - Heat Transfer
(2)	See: Weather Underground current
(3)	Convection in the Air Demonstration
	and drawing (page 11)
Computer App	s/ Technology (Read + Discuss "Convection"
	Green Book
	P9 33

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Focus Question: How does energy transfer impact the movement of warm and cool air masses?

Task 1: Can water of two different temperatures form layers? Yes No





Explanation:

- Convection is the movement of fluids due to a difference in density, resulting from temperature.
- Convection happens when particles in air, liquid, and/or gasses are free to move.
- Heat transfers from More heat to less heat

Three types of Energy Transfer

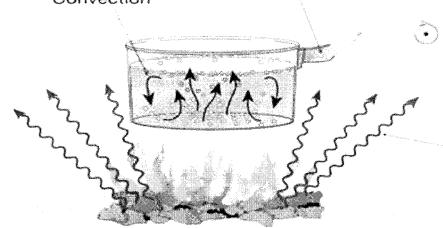
We claim this form of energy transfer is...

We know this because the molecules in fluids are moving due to differences in density Convection We claim this type of energy transf

"conduction

WE know this because neat is being tranferred from more heat to less heat by *contact*

Conduction



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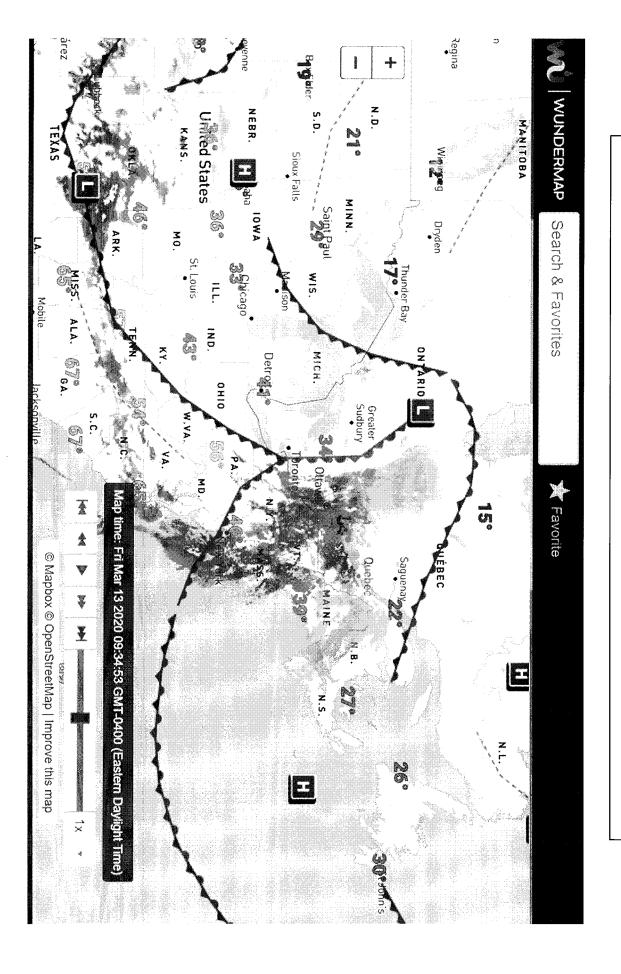
Page 10

WE claim
this type of
energy transfer is
Radiation

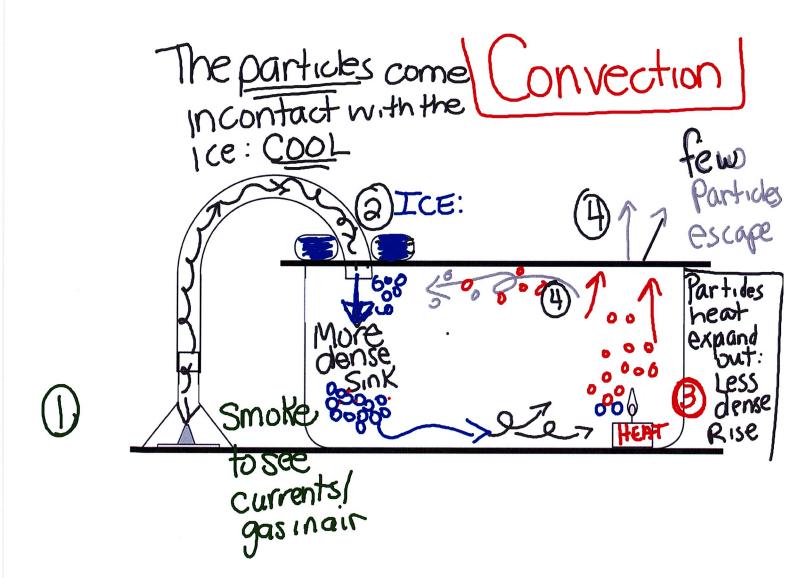
We know this because heat energy is being transferred through waves or rays (no direct contact)

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What do you see? Fronts / precipitation Look outside: observe cloud formations & direction of movement March 13, 2020



Pg 11



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[Convection]

Sciencelo

Air is a fluid. Energy can transfer to air, causing it to expand. When air expands, it becomes less dense. Less-dense air will rise in the atmosphere.

Warm air

This is exactly what happens in the real world. Earth's surface is always warm in the tropics, the part of the planet near the equator. Water in the tropical oceans absorbs a lot of solar energy. Air in contact with the tropical seas receives a lot of energy

by reradiation and conduction. Huge masses of air heat up and begin to rise. This is the start of the largest convection cell on Earth.

The equatorial convection cells circle the globe like two bicycle inner tubes.

Because much of the energy transfer occurs over the ocean, large amounts of water vapor rise high into the atmosphere, riding along in the convection cell. The warm, moist air spreads out north and south, and it cools. When the air cools,

water vapor condenses into droplets of liquid water. Large numbers of little droplets of water form clouds. And we all know what happens

after clouds form—rain.

In the next few investigations, we will see how the process of convection helps redistribute water around the planet and affects wind, everything from gentle breezes to powerful, dangerous storms.



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Objective: Solving Equations

Vocabulary



Expression: A combination of variables, numbers, and symbols representing a mathematical relationship

Equation: A statement that two mathematical expressions are equal

Inverse Operation: Operations that do the exact opposite of each other

Notes/Rules/Steps/Procedures

Inverse Operations

Addition and Subtraction Multiplication and Division

Hints

Equations must stay **balanced**Do it to **both** sides **Goal:** Isolate the variable
You want the variable **alone**

One Step Equations

Only one operation to perform

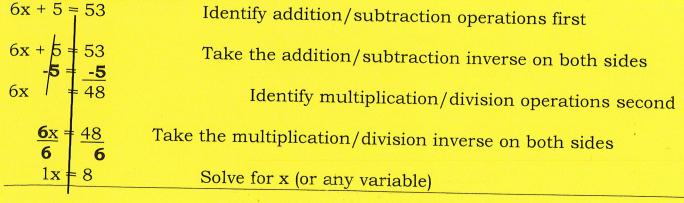
Two Step Equations

2 or more operations to perform Do addition or subtraction 1st Do multiplication or division 2nd

One-Step Equation

$$26 + x = 35$$
 Identify the current operation (addition) and its inverse $26 + x = 35$ Take the *inverse* of the operation on **both** sides Solve for x (or any variable)

Two-Step Equation



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Name

Call me, a detective!

You are a detective trying to determine the long lost sibling of the Duchess of Yorkshire. In order to find her long lost sibling you have to solve the problems. For every problem you solve you will get another clue to draw a sketch of her sibling. Once you have solved all of the problems draw a sketch to help reunite the Duchess with her family.

Problem 1:

$$2x - 4 = 8$$

Check:

Answer Choices:

6	8	4
Red Hair	Brown Hair	Blonde Hair

Problem 2:

$$\frac{x}{5} + 4 = 10$$

Check:

Answer Choices:

20	25	30
Green Eyes	Brown Eyes	Blue Eyes

Problem 3:

$$4x - 10 = 22$$

Check:

4	7	8
Fair Tone	Medium Tone	Dark Tone

Problem 4:

8x - 10 = 42

Check:

2	3	4
Button Nose	Pointy Nose	Wide Nose

Problem 5:

Check:

 $\frac{x}{9} + 13 = 28$

Odd number answer	Even number answer
Male	Female

Draw the Duchess's long lost sibling here:						

- ...

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