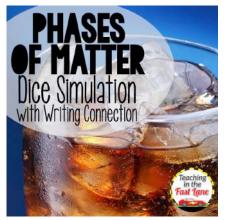


#### PLEASE VISIT MY TEACHERS PAYTEACHERS STORE

Teaching in the Fast Lane



CIRCULATION OF A DOLLAR
DICE SIMULATION
AND WRITING CONNECTION



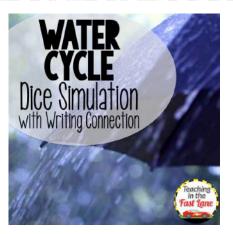


#### FOR MORE SIMULATIONS!

TURKEY IN HIDING
DICE SIMULATION
AND WRITING CONNECTION



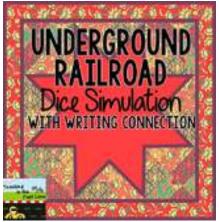




REINDEER GAMES
DICE SIMULATION
AND WRITING CONNECTION











#### INCLUDED IN THIS PRODUCT:

- Teacher and student directions for simulation
- Recording sheet
- Sample recording sheet
- Teacher directions for narrative
- Sample narrative based on sample recording sheet
- Rubric for narrative
- Signs for each location with directions
  - For larger classes, I would make multiple copies of each poster and directions, so that lines at each don't get too long.

\*\*You will need six dice to complete this simulation. I recommend the large foam dice that can be found at the dollar store.\*\*

#### NOTE TO TEACHER

This is a simulation meant reinforce student, 'know'e de of ways that sediment moves through an en ironment. This simulation is a great way to correct science and writing within your curriculum.

#### TEACHER DIRECTIONS FOR SIMULATION

- Print and laminate each of the location signs and student directions.
- Hang the location signs and student directors are the classroom and place one die by each parties.
- Hand out recording sheets to tude its an ireview he directions with them:
  - Directions are found in the lext lags
- Monitor studen's striey travel crounce e classroom during the simulation and complete their ecording sheet.
- Assign stolen to their stoling location.
  - To this by numbering students off #1-6 and assign them to the following locations:
    - Rock
    - Z. Caught in an Animal Hoof
    - 3. Carried Away by Water
      - 4. Blown Away by Wind
      - 5. Stuck to a Shoe
      - 6. On a Hiking Trail

#### DIRECTIONS FOR SIMULATION

- After each student has their starting location, they stould begin to circulate.
- At each location, roll the die and read the example associated with the number rolled. Use the makine words to record your propings and travel to the next location.
- Once you have e table bed your or ation, travel there
  quietly and we han limite to of the die.
  - If your died ive is to stay in the same location, then
     o to the enit of the line and take another turn rolling
     the circle.
- - would recommend allowing students to complete he simulation for about 10-15 minutes.



## ON A ROCK

- 1. A strong breeze blows and you are called a vay in the wind.
- 2. A flash flood roors and you are <u>rarrie</u> away by water.
- 3. A stamped poccurs or d you are <u>caught in an</u> anic are he of.
- th ir how
- 5. A latier scrapes away everything in its path.
- buring high tide you are caught in a wave.

# CAUGHT IN ANS ANIMAL 100

#### CAUGHT IN AN ANIMAL'S KO

- You are droppe on a nikit g tra.
   While the chimal is drinking, J fall into the river an a or corried va by wat<u>er</u>.
- You stay <u>cought it an animal's hoof</u>.
- u cre ropped on a hiking trail.
- While the unimal is drinking you fall into the river dare <u>carried away by water</u>.
- You stay <u>caught in an animal's hoof</u>.



# CARRIED AWAY BYS WATER SI

- 1. The river is sing, but onthut to be <u>carried</u> away by <u>rier</u>.
- 2 You re de posite con <u>a rock</u>.
- . V'hile ar ar mal is drinking you get cc us nt il is hoof.
- There is strong, you continue to be <u>carried</u> <u>away by water</u>.
- 5. After a flood, you are left on a hiking trail.
- ou are deposited on <u>a rock</u>.

# BLOWN ASSAU

## BLOWN AWAY BY

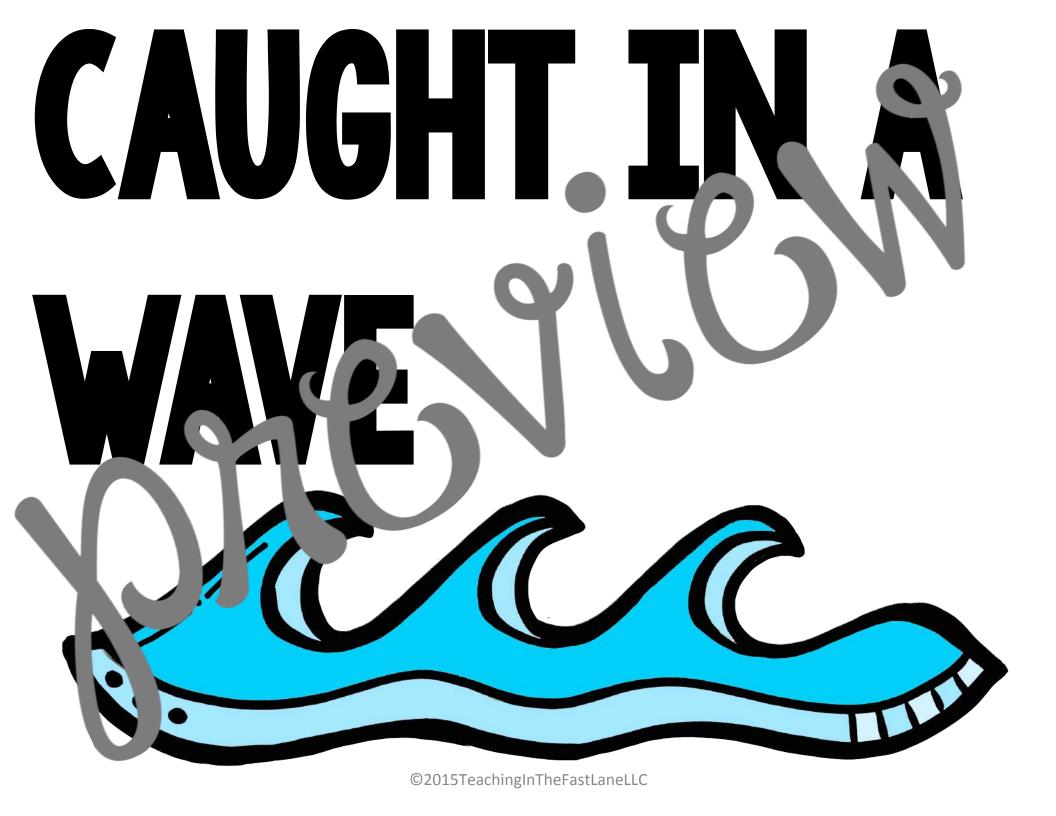
## WEND

- 1. You are ser psited on <u>ock</u>.
- 2 ruland <u>nn hikir y trail</u>.
- 3 The wind strong and you continue to be
- blor away by the wind.
- 4 land in a river and are <u>carried away by water.</u>
- 5 Du are deposited on <u>a rock</u>.
- 6 Y u land on a hiking trail.

# STUCK TOA ©2015TeachingInTheFastLaneLLC

## STUCK TO A SHOE

- 1. You fall off the shoe on a niking trail,
- 2. After visiting neburch rou recaught in a wave.
- 3. You are deposited on a lock.
- 4. After faiting the beach you are caught in a wave.
- 5 You are deposited on a rock.
- 4 You for of e shoe onto a hiking trail.



#### CAUGHT IN A WASSE

- 1. The ocean is quite large, and you stace aught in a waye.
- 2. You are wanted on o a took.
- 3. The ocean oquite longs, and you stay cauthin a wave
  - . After high tille you are left on a hiking trail.
- 5. The crecalis quite large, and you stay court in a wave.
- 5 A strong wind blows over the ocean, and you are blown away in the wind.



# SCRAPED AWAY BY AGENCY GLACIERO

- 1. The glacier is gigantic and you continue to be scraped away by a glacier.
- 2. An animal valus across he grazier and you get sought hits hop.
- 3 neglaci rilgigar ic and you continue to be screed a ray by a glacier.
- The glacier meets the ocean, and you
  - caught in a wave.
- the glacier is gigantic and you continue to be straped away by a glacier.
- 6. Su are left behind on a hiking trail.



#### ON A HIKING TRASL

- 1. You are lifted up and blown av ay in e ina.
- 2. A storm comes and yes a e carried away by rate
- 3. A band of mimals crosses the trail and you are cauth non anir al's loof.
  - . A hiking are up walks the trail and you gets uck a shoe.
- 5. You say on a hiking trail.
- by Arlood comes and you get washed down to the ocean and caught in a wave.

Name

# #\_\_\_\_Date\_\_\_\_\_SEDIMENT DICE SIMULATION\_\_\_\_\_\_

1	Begin	1	
2		12	
3		13	
4		4	
5	011	5	
0		16	
7		17	
3		18	
9		19	
10		20	

# SAMPLE RECORDING SHEET FOR SEDIMENT DICE SIMULATION

1	Begin on a rock	10	carrida ay vater
2	stuck to a shoe	12	cerisdawa, ly ater
3	caught In a wave	13	der psited on a rock
4	caught In a ware	14	bl wr. away in the wind
5	caugi in a v ave	15	caught in a wave
6	calgh In wive	16	caught in a wave
	cau h In a wave	17	on a rock
8	aught In a wave	18	stuck to a show
9	o a hiking trail	19	on a hiking trail
10	ir an animal's hoof ©2015TeachingIr	20 TheFastLane	blown away in the wind

#### TEACHER DIRECTIONS FOR NARRATIVE

- After completing the dice simulation, students are ready to write a narrative from the point view of a piece of sediment traveling through on environment.
- Students should use their recording theet the locations they visited) to the analystive lece about their adventu.
- By following the irrecording sheet and adding details, students with heir earn trained describing their carentum. Is also in portant for students to use their cienter occiously in the narrative.
- is alright for students to not use all of the locations our recording sheet, but they should include at eart five events.
- A rubric for the narrative is included.

#### SAMPLE NARRATIVE

As a rock my existence is pretty dull. Day in an day out I watch the sun rise and expet overly excited whenever something as simple as a rock climber or a deer happens upon ne. I can only hope that one day I will be lucky enough to be taken along with em.

It happened! It finally happened! I was just mind a my own kniness. Tay how ingout in the rock that I have been part of for a millennia, where all of a sucker my view were a six didn't know what it was at first, but soon I realized that it was my dream and it is to be true. The was lick to the bottom of a hiker's shoe.

It took a while for me to get used to the Lev of the lost of my less. With each step led the hiker took I saw sunlight and then dark over and over ain. Each time saw light ere was new scenery, which was so welcome after a vears of the sall eview in the lock.

The best day yet has arriv a. ast right lover eard the sheet's owner discussing going to the beach today, and sure endugenth morning regard here bigg and early. The sand is so soft, and yet abrasive. I will ad the shock when the ring is consert to the ocean. I had always wanted to feel the ocean.

So enough by last with came trail. I felt the sand get moist and heard the waves crashing on errors as vergo closer to be water. Before I knew it I was no longer attached to eshies, but vas i steak limb, a in the waves of the ocean. I felt free of gravity as I drifted out to except the contract of the

on the did I low that being in the ocean would last for a decade. I crashed with the waves on the hore, and I loged to be left there, but I was constantly being pulled back out to the deep, dark to the ocean.

ne one day, an especially high tide rolled in over the dunes of the beach and I reached out a dhad on for dear life. I landed myself on a hiking trail near the rock that I lived on for so long. screamed out in joy for not being in the water anymore. After so many years I felt so water age and was eternally grateful to just lay on the trail in the sun.

Harman tay, considering what my next adventure might be!

# RUBRIC FOR SEDIMENT DICE SIMULATION NARRATIVE

	1 point	3 points	5 int
Grammar, Mechanics, & Spelling	Many mistakes that make it difficult for the reader to understand	A for mist ' Sut the eader on still nderstal I.	Only 2 nists s and the ider can una istand.
Organization and Coherence	The stor does not take serve in follow order to be served in the serve	ne stor, foll vs oraer of evens, ut lacks coherence.	The story follows a logical order and is coherent.
E ents om ec rding ee	In ude ? or less vents m the impation.	Includes 4-5 events from the simulation.	Includes 6 or more events from the simulation.
Se intific lock ulary	No details are added. Academic vocabulary is not present	A few obvious details are added along with some academic vocabulary.	Many imaginative details are added. Clear use and knowledge of academic vocabulary is present.

Total Score \_\_\_/20

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