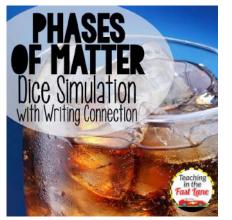


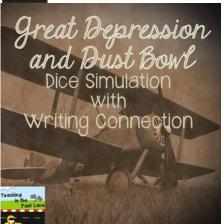
PLEASE VISIT MY TEACHERS PAYTEACHERS STORE

Teaching in the Fast Lane



CIRCULATION OF A DOLLAR
DICE SIMULATION
AND WRITING CONNECTION



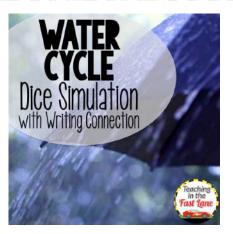


FOR MORE SIMULATIONS!

TURKEY IN HIDING
DICE SIMULATION
AND WRITING CONNECTION





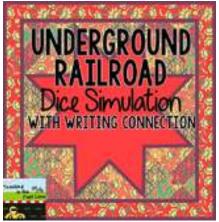


REINDEER GAMES
DICE SIMULATION
AND WRITING CONNECTION





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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 to reinforce students' knowledge of the different ways that seeds can be dispersed throughout an environment. This simulation is a great way to connect science and writing within your curriculum.

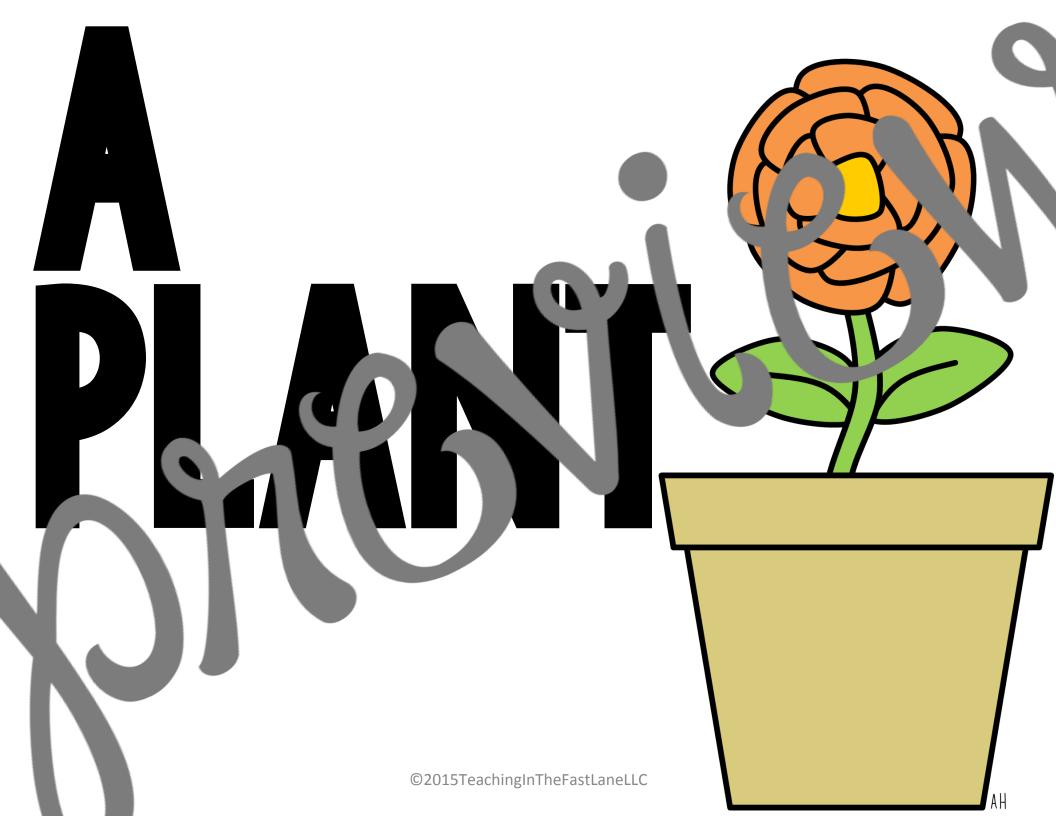
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TEACHER DIRECTIONS FOR SIMULATION

- Print and laminate each of the location signs and student directions.
- Hang the location signs and student directions around your classroom and place one die by each poster.
- Hand out recording sheets to students and review the directions with them:
 - Directions are found on the next page
- Monitor students as they travel around the classroom during the simulation and complete their recording sheet.
- Assign students to their starting location.
 - I do this by numbering students off #1-6 and assign them to the following locations:
 - 1. A Plant
 - 2. In the Wind
 - 3. Eaten by an Animal
 - 4. Carried by Water
 - 5. On the Ground
 - 6. In the Soil

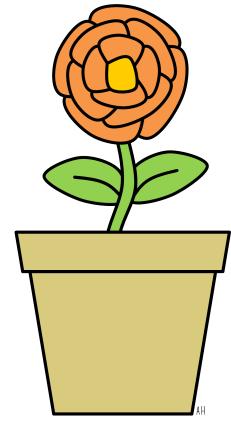
DIRECTIONS FOR SIMULATION

- After each student has their starting location, the should begin to circulate.
- At each location, roll the die and read he exent associated with the number rolled. Use the unders so words to record your progress of avel to the nex location.
- Once you have sability day or location true stanere quietly and via in line to all the die.
 - If your directive is to lay, the same location, then
 go the least of the leant take another turn rolling
 the die.
 - Stu 'en shou'd continue to travel from location to localio until Ley complete their recording sheet or time is ur
 - would recommend allowing students to complete the simulation for about 10-15 minutes.



APLANT

- 1. You feel a breeze and get blown a vay in the wind.
- 2. A horse comes up in you and you all eaten by a gaima.
- 3. A storm be its array called a storm be its array of a least of the storm be its array of a least of the storm be its array of a least of the storm be its array of a least of the storm be its array of a least of the storm be its array of a least of the storm be its array of a least of the storm be its array of a least of the storm be its array of a least of the storm be its array of a least of the storm be its array of a least of the storm be its array of a least of the storm be its array of a least of the storm be its array of a least of the storm be its array of a least of the storm be its array of a least of the storm be its array of the storm be its arra
- 4. You all <u>nto the ground</u>.
- 5. Du are tready yet, stay in a plant.
- 6. Tellant decomposes and you me part of the soil.





IN THE WIND

- 1. The wind is quite strong toda, and you read in the wind.
- 2. You fall onto the <u>rund</u>.
- 3. You get sturk in a spoten technology animal.
- 4. At in emerges a dyocare carred we by wirer.
- 5. Du all to incoground.
- 6. You re mixed with sediment, and the soil.



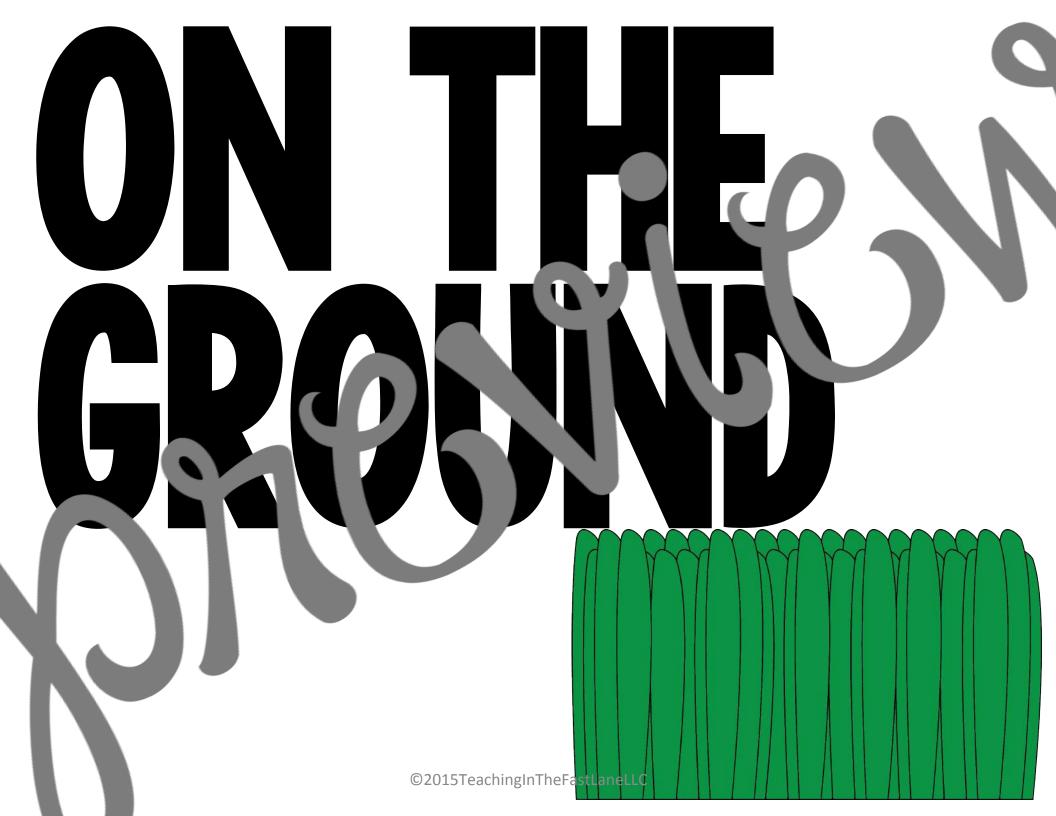
EATEN BY AN ANIMAL

- 1. After passing through the animal # uare left on the ground.
- 2. You become part of the oil.
- 3. You are spit back of while the arimal is dinking and carried a vay by varer.
- 4. Yet are blown out of training into ne vir 1.
- 5. Afte posing through the animal you are left and tear ina.
- 6. You re spit back out while the nimal is drinking and carried away by water.



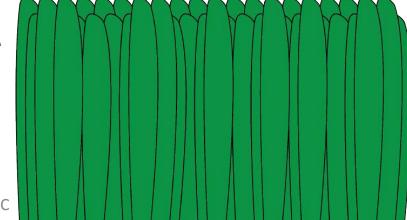
CARRIED BY WATER

- 1. You are left at the banks of a liver and the gour
- 2. You are <u>eaten by an a. ir al</u> c inking from the river
- 3. The water is no ving lick rand of continue to be carried, water door the river.
- 4. You get nix d with e river silt and become part of the sc
- 5. You re territory an animal drinking from the river.
- Y u are left at the banks of a river on the ground.



ON THE GROUND

- 1. You are <u>eaten by an animal</u> along vith some grass.
- 2. A storm comes a you cre carried away y we r.
- 3. A strong b. Ze a me, and you are in the wind.
- 4. You are rampled in a the soil.
- 5. You are <u>at a by a animal</u> along with magain
- 6. A storm comes and you are arranged away by water.





IN THE SOIL

- 1. A strong breeze turns up the sc l, and you fin. yourself in the wind.
- 2. You receive the proper series and not ents and grown into a licht.
- 3. A flood con Sand You recan solve as by wait.
 - nu rietts and grown into a plant.
- 5. A foctories and you are <u>carried away by water</u>.
- You receive the proper water and nutrients and grow into a plant.

Name_____ #___ Date____

SEED DISPERSAL DICE SIMULATION

1	Begin	1 1			
2		12	. 1		
3		3			
4		14			
5		15			
6		16			
7		17			
8		18			
(2		19			
10		20			

SAMPLE RECORDING SHEET FOR SEED DISPERSAL DICE SIMULATION.

1	Begin a plant	11	n the go nd	
2	Eaten by an animal	12	Enten I. In anima	
3	On the ground		In the sc	
4	Carried away by w	14	Sp. put in a plant	
5	In the soil	15	On it ground	
6	Sproving a lant		Eaten by an animal	
	Carrie I av ay ywate	17	Carried away by water	
	On he ground	18	Carried away by water	
9	In the wind	19	In the soil	
0	the wind ©2015TeachingIn	nThe <mark>2a</mark> ct_ane	Sprout into a plant	

TEACHER DIRECTIONS FOR NARRATIVE

- After completing the dice simulation, students re ready to write a narrative from point or view of a seed on the journey of dispersal through or an environment.
- Students should use their read din shee (the locations they visited, write a no rative view about their advanure.
- By following the recording the et and adding details, stude to will have a native describing their accent red is a so important for students to use their science vocabulación the narrative.
 - It is a fight for sudents to not use all of the locations on their ecording sheet, but they should include at east five events.
- rubric for the narrative is included.

SAMPLE NARRATIVE

As the sun rose high in the sky I could feel the flower of my plant reaching higher and higher into the sky to soak up the warm rays. Just as we had achieved the perfect angle ' pak up e sun's energy, a large shadow was cast across us. I looked up to see a rather large to egged being. I tried to warn the others, but before I knew it we will be being chevillar and by the land animal.

and onto the s I was one of the lucky ones, because I fell out of the creature's r when it bent down to drink from the river. I was soon washed way by the mighty po of N river. I rather enjoyed the feeling of being carried y and a hat I travele at€ uite (I imagine long distance in the river, but have no idea how fa √atei radually came mor hallow and I felt myself mixing with the silt of the probable bottom. on the book of the hally, I und mys river surrounded by the silt.

It was here that I found the numerts new ary to perminate and low. After many weeks I was a fully formed plant or be gain. I looked and to be that it is of my fellow seed friends had also made the same journal of wearly living our heir next life as a plant as well.

ower with v nt sha bf red and orange. The following day a I grew than ost utiful Jetal and bird landed on ocked me () the grand. I stayed on the ground in the topsoil days. I bent r r tim oping to be ome another plant, but instead I experienced the for ing contied by wood. I rose higher and higher into the sky on the wings on of l st divir sensa eling tod or what seemed like an eternity, but ended almost his w he wind hderfl nediately s I p mmet the earth.

As I fell see and close... the ground I remembered my dream of once again being a nt. I hope of a somewhere with soft, fertile soil that would allow me to flourish.

te, instead I landed on a barren rock with none of the requirements for me to the control of the control of the requirements for me to the control of the control of the requirements for me to the control of the contr

RUBRIC FOR SEED DISPERSAL DICE SIMULATION NARRATIVE

	1 point	3 ints	5 pc 3
Grammar, Mechanics, & Spelling	Many mistakes that make it difficult for the reader to understand.	A few mitakes, buther had can still under and.	nly 1-2 intake ar the reconscal unders and.
Organization and Coherence	The story not ? sense c tolk / order eve is.	The sory follogs or control of sort of control of the sort of the	logical order and is coherent.
Events from coming she to	In lud€ 3 or less eve om 1 > simulation	Includes 4-5 events from the simulation.	Includes 6 or more events from the simulation.
Details nd Scient : V rab ury	No ails 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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