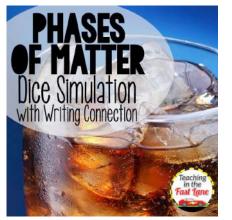


PLEASE VISIT MY TEACHERS PAYTEACHERS STORE

Teaching in the Fast Lane



CIRCULATION OF A DOLLAR
DICE SIMULATION
AND WRITING CONNECTION



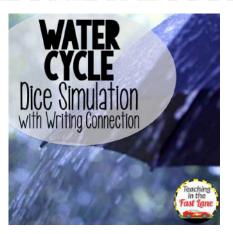


FOR MORE SIMULATIONS!

TURKEY IN HIDING
DICE SIMULATION
AND WRITING CONNECTION





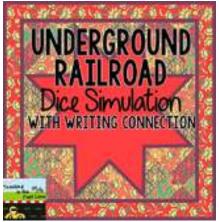


REINDEER GAMES
DICE SIMULATION
AND WRITING CONNECTION





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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 reinforce stradents' knowledge of the vays in at energy can tra e through an ecosystem. sil rulation is a great way connect science and writing within your curriculum.

TEACHER DIRECTIONS FOR SIMULATION

- Print and laminate each of the location signs and sturent directions.
- Hang the location signs and student directions cound your classroom and place one die by each poste
- Hand out recording sheets to sturb it and reliew the directions with them:
 - Directions are ... und the next pare.
- Monitor student as ney treat at und the assroom during the simulation and simple: their scording sheet.
- Begin to all custing how coener, starts with the sun. ssign tudents to their storing location.
 - I do this not bering students off #1-6 and assign them to he allow locations:
 - Trees
 - Plants
 - 3. An Insect
 - 4. A Frog
 - 5. A Snake
 - 6. An Eagle

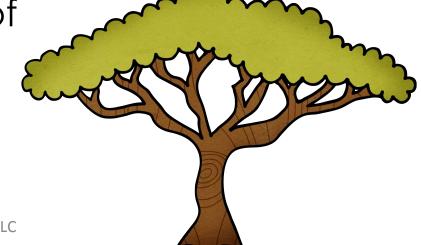
DIRECTIONS FOR SIMULATION

- After each student has their starting location, the should begin to circulate.
- At each location, roll the die and read event associated with the number role. Use it e under nead words to record your program and traver of the next location.
- Once you have established your location, travel there
 quietly and within limit to little die.
 - If you directive is the stay to the same location, then
 go to the end of the line and take another turn rolling
 the die
- Stage its shall depend on the stage of the s
 - I would recommend allowing students to complete the simulation for about 10-15 minutes. ©2015TeachingInTheFastLaneLLC



ATRE

- 1. An insect comes along and nibbles on yar leaves.
- 2. A mouse makes snac out of your bark.
- 3. You begir to decorpole, and <u>fungus</u> grows
- 4. <u>At insect</u> omes cong and nibbles on your ledves
- 5. A <u>ara</u> akes quick work of ng your leaves.
 - A mouse makes a snack out of your bark.



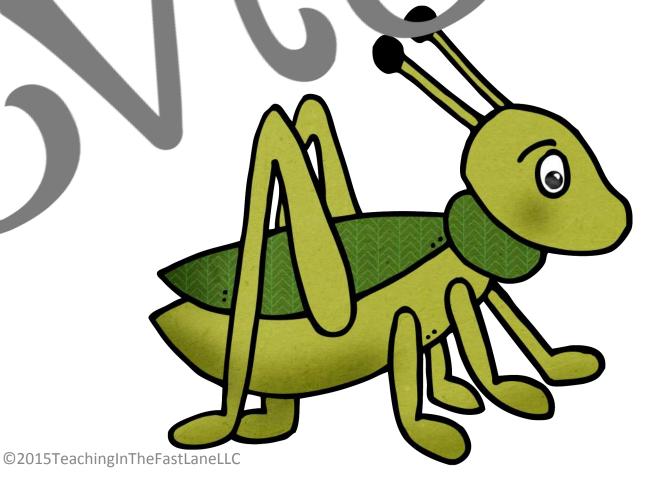


PLANTS,

- 1. A mouse enjoys your or le aves.
- 2. A lizard finds you to be neir lavor ? snac
- 3. A fungus feeds of your detaing haves.
- 4. An insect hit ales on your leave
- 5. Light us reds cofy rations at caying eaves.
- Ar insect robles on to riecos.







AN INSECT

- 1. You are eaten by a lizer
- 2. A snake makes a quick nack out f you.
- 3. After dying the us felds on your decaying matter.
- 4. Cure e iten by a lizer.

5. A nake nakes a luick snack out of you.

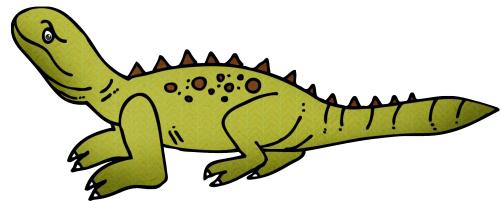
Af er a ing a <u>fur gus</u> feeds on your de cayı, matter.

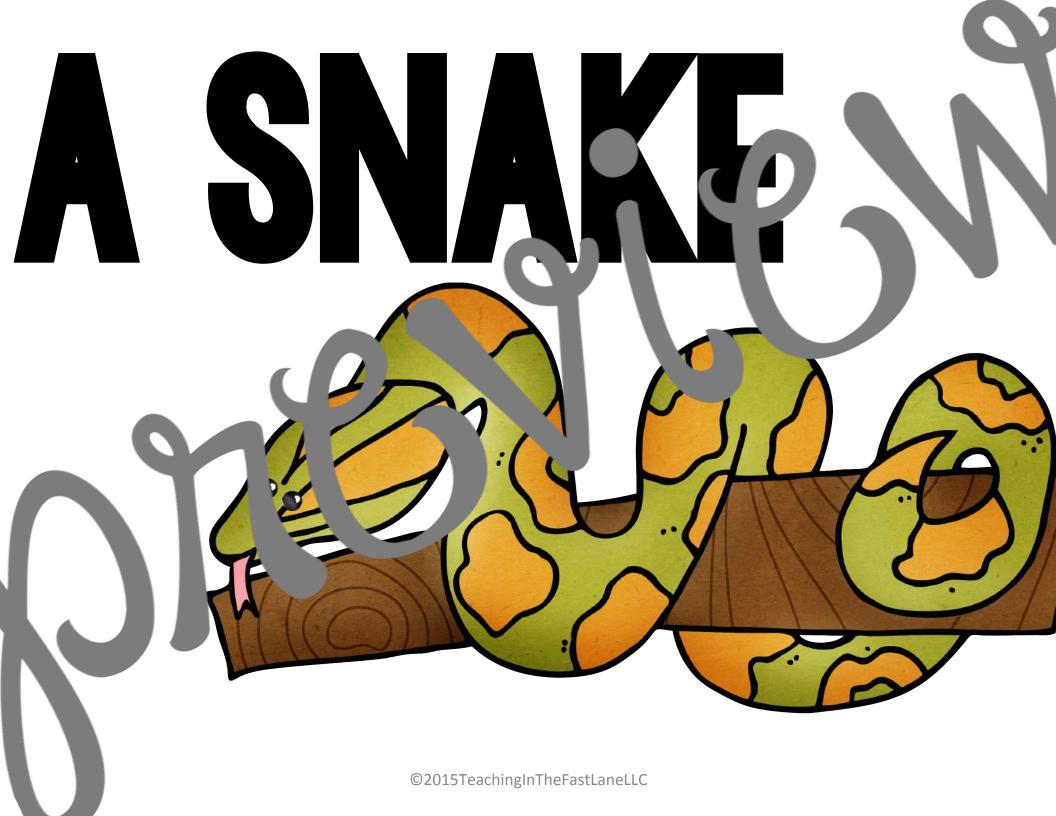




ALIZARD

- 1. An eagle swoops do no catches you
- 2. You are eaten by a sna e.
- 3. A larger lization es al ngana ea. you.
- 4. After dyin 1, 1 funge feeds on , ur according matter
- 5. You are ten by <u>snake</u>.
- م <u>Ar ea 'e</u>s 'oop' down and catches you.



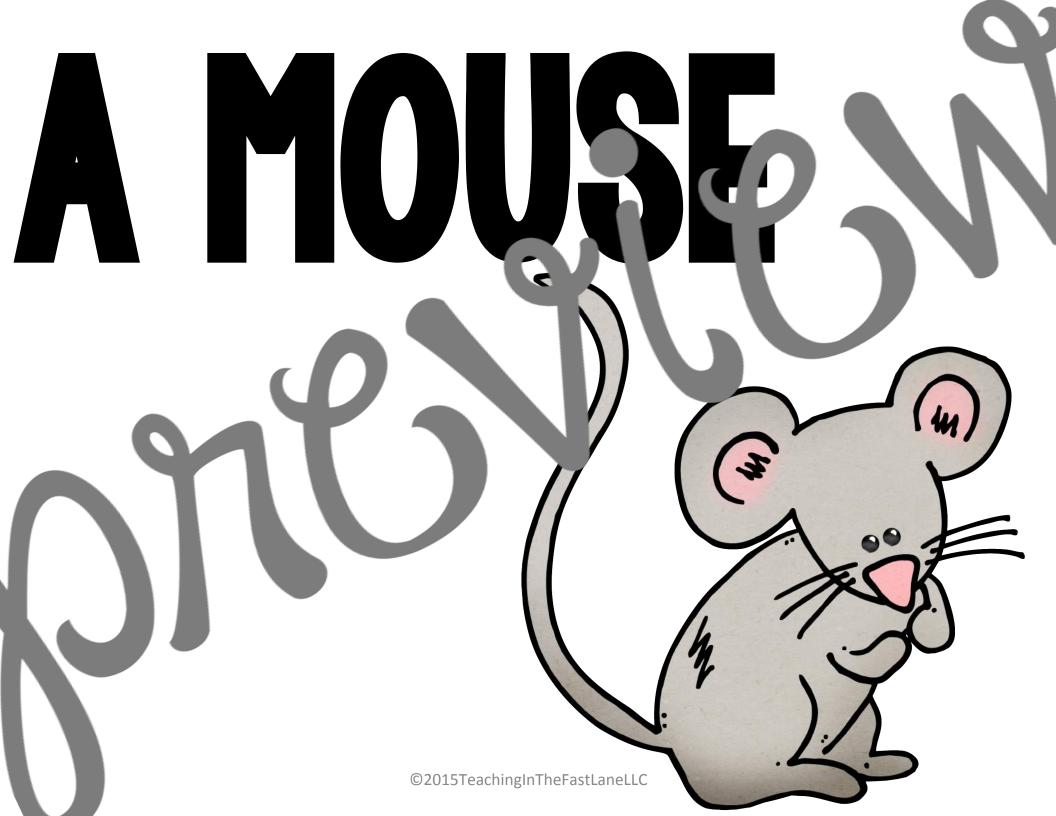


ASNAKE

- 1. A larger <u>snake</u> comes along and wallow you up.
- 2. An eagle shown and saishe you.
- 3. A lizard sv all sws you whole.
- 4. Ter 'yir 1, <u>a fur us</u> 1 ds on your at cay ng natter.
- 5 A argers<u>n ke</u> comes along and swallows vo up.

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6. Ar <u>eagle</u> swoops down and carches you.



AMOUSE

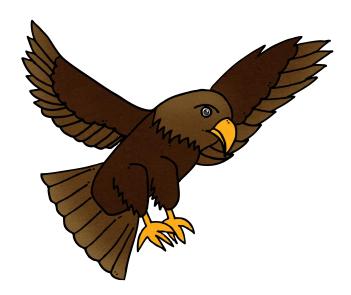
- 1. A snake comes out and we are a diswall ws you whole.
- 2. An eagle soop lown and archs, and
- 3. A lizard strke, and this ou.
- 4. There ying, a function of ds on your at caying matter.
- 3 A hak comes out of nowhere and sw was you whole.
- 6. Ar <u>eagle</u> swoops down and grabs you.





AN EAGLE

- After dying, a fungus reds on your decaying matter
- 2. While in you ness a large snoke ard syou.
- 3. After dyin 1, 1 funge feeds on Jur
- 4. Wile hy ur nest a large <u>snake</u> grabs you.
- 5 Af er a ing a fur gus feeds on vo r de ying matter.
- 6. V le in your nest, a large <u>snake</u> grabs you.





A FUNGUS

- 1. A mouse comes alorg and hibbles on yo
- 2. Your decaying matter, ovices energy fo another <u>fuzzus</u>.
- 3. An insect ac s you ...
- 4. Aplant uses the stries that you have broken as wn or hotosy hesis.
- 3 <u>A ee</u> ses he purients that you have broken do vn to row stronger.
- 6. A <u>ant</u> uses the nutrients that you have broken down for photosynthesis.

Name____ #__ Date___

ENERGY IN AN ECOSYSTEM DICE SIMULATION

| 1 | Begin | 11 | |
|----|-------|-----|--|
| 2 | | 12) | |
| 3 | | 3 | |
| 4 | | 1 | |
| 5 | | 1 | |
| 6 | | 16 | |
| | | 17 | |
| 8 | | 18 | |
| | | 19 | |
| 10 | | 20 | |

SAMPLE RECORDING SHEET ENERGY IN AN ECOSYSTEM DICE SIMULATION

| 1 | Begin a tree | 1 1 | eate V snake | |
|----|--------------------------------------|-----|------------------------|--|
| 2 | eaten by an inset | W | augh by an ecle | |
| 3 | eaten by a lizard | 3 | c scomp sed b a fungus | |
| 4 | eaten by an ϵ ag ϵ | 1 | no i a tree | |
| 5 | de mr sec by a fui us | | eaten by a mouse | |
| | nouri h a lan | 16 | eaten by a lizard | |
| 7 | enter by chous | 17 | eaten by a snake | |
| 8 | e e by a snake | 18 | caught by an eagle | |
| 3 | aten by a bigger snake | 19 | eaten by a snake | |
| 16 | caught by an eagle | 20 | caught by an eagle | |

TEACHER DIRECTIONS FOR NARRATIVE

- After completing the dice simulation, sucents re ready to write a narrative from the part of view of energy traveling through an a system.
- Students should use their and any sheet (the locations they risite to write a narrative piece about their any enture.
- By following hear recording theet and adding details, students will have an arative describing their edverture. It is also in portant for students to use their scence versions in the narrative.
- It is alreaft for students to not use all of the locations or new recording sheet, but they should include at least five events.
- A rubric for the narrative is included.

SAMPLE NARRATIVE

Energy. The source of all life in the universe. I left the sun with the charge of knowing that I would be responsible for providing life to every organism to the came in contact with.

It didn't take long for me to meet my first organis a. tree. Through the miracle of photosynthesis I was able to provide the ability to grow the my legs as I coursed through the bright goest leaf.

Soon enough I felt myself being to ay k an insert that we nibbling on my leaf. I felt myself being arbed in the sect's k dy, but before I knew it we were swalloned who are a lized.

That didn't last on though, be use efore I. It we were scooped up by a majestic eag. and could be king their nest. In the nest, I was fed upon by the mouths of the babies.

b. Forturately elboy that hourished didn't make it, and fell out of the nest. Lukily houge by energy, was quickly absorbed by fungus that decompose the east and sent me into the soil as nutrients.

Afte he ext rain I had the distinct pleasure of making my way through e color of mighty tree and into its leaves where I underwent the process of paraynthesis again.

Here I stretch my legs in this gigantic leaf and wait for the next organism that will be passed to.

RUBRIC FOR ENERGY IN AN ECOSYSTEM DICE SIMULATION NARRATIVE

| | 1 point | 3 points | 5 p ts |
|--------------------------------------|--|--|--|
| Grammar, Mechanics, & Spelling | Many mistakes that make it difficult for the reader to understand. | A few istakes, b there ler can st unc stand. | Only 1-, istak nd the relier counce und stand. |
| Organization and Coherence | The sary cases not a re ensary llow order events | The story follows der coherence. | The story follows a logical order and is coherent. |
| ents fron recolling sizet | nclus 3 or less ents fron he simula un. | Includes 4-5 events from the simulation. | Includes 6 or more events from the simulation. |
| Deta aı Sci tifi .oulary | 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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