



Crystal Springs Live!





Thank you for choosing Crystal Springs LIVE!

Crystal Springs Preserve and WaterVentures Florida's Learning Lab are committed to bringing quality environmental education programs to teachers and parents. Our programs are aligned with NGSSS and SNF standards to align with topics taught in classrooms. Each program has been created with the student in mind and conveys important environmental topics in a fun and engaging manner. Additionally, supplemental activities, vocabulary lists, pre/post tests and more are offered to provide an all-encompassing program for students in and out of the classroom.

For those of you unfamiliar with Crystal Springs or WaterVentures, we invite you to explore our websites. (www.crystalspringsfoundation.org and www.waterventures.us). Crystal Springs Preserve is a 530-acre living laboratory that is dedicated to bringing directed learning opportunities to visitors through immersion into the pristine habitat of the preserve. WaterVentures was created to extend this learning throughout the state of Florida. As a high-tech mobile learning lab, WaterVentures brings those same fun and engaging environmental programs to schools free of charge. Both are devoted to inspiring guests to be responsible environmental stewards of Florida's precious natural resources.

We hope you enjoy our virtual programs and please do not forget to check out the offerings of Crystal Springs Preserve and WaterVentures!

Happy learning!

Magic of Springs Pre/Post Test

- 1) What is a spring when referring to a pond full of water?
 - a. Natural opening in the ground discharging fresh water
 - b. A season
 - c. Something you jump on
 - d. None of the above

- 2) How many springs do we have in Florida?
 - a. 10
 - b. 5
 - c. Over 900
 - d. 30

- 3) What is an aquifer?
 - a. Fur on an animal
 - b. Underground cave full of fresh water
 - c. Something that stores food
 - d. None of the above

- 4) How many different magnitude rankings for springs are there?
 - a. 25
 - b. 47
 - c. 62
 - d. 8

- 5) What is limestone?
 - a. A sedimentary rock that forms the bedrock of Florida
 - b. One of Florida's 4 natural layers
 - c. A stone made of lime
 - d. Both A and B

- 6) What causes water to move from the aquifer to a spring?
 - a. Pressure from water droplets
 - b. Electric pump
 - c. Gravity
 - d. None of the above

- 7) What is limestone made out of?
- a. Limes
 - b. Sediment compacted from dead marine life
 - c. Cement
 - d. None of the above
- 8) What is a sand boil?
- a. Water bubbling up through the sand
 - b. Boiling hot water
 - c. A pot full of sand
 - d. None of the above
- 9) The temperature of spring water stays at 72 degrees all year.
- a. True
 - b. False
- 10) What is a watershed?
- a. A shed full of water
 - b. Any piece of land that rainwater flows off of
 - c. The land that you live on
 - d. Both B and C



Magic of Springs Pre/Post Test Answer Key

- 1) A
- 2) C
- 3) B
- 4) D
- 5) D
- 6) A
- 7) B
- 8) A
- 9) A
- 10) B

PRE/POST EXHIBIT DATA SUBMISSION FORM

Date of Program	
School name	
Teacher name	
Number of students taking the Pre-test and Number taking Post-test	
Pre-test average percentage *	
Post-test average percentage *	

*Scoring all tests, adding up all scores, and dividing by the number of students that took the test will obtain an average percentage.



Magic of Springs Vocabulary Words

Aquifer- underground cave system full of fresh water

Bedrock- bottom layer of Florida made up of limestone rock

Filter- process of water being cleaned as water travels through the natural layers

Fossils- remains of an organism preserved as a mold or cast in a rock

Limestone- sedimentary rock that forms the bedrock of Florida. It is 1 of 4 natural layers that filters water

Magnitude- volume of water that is being discharged from a spring

Minerals- substances that are formed naturally in the earth

Percolation- water seeping through the ground

Porous- tiny spaces or holes through which water can pass

Sand boil- a spring vent that discharges water through sand

Sedimentary- a type of rock made from sediment particles compacting

Spring- natural openings in the ground full of fresh water

Tape Grass- fresh water aquatic plant that resembles stripes of tape. It provides habitat for a variety of fish, snakes, and snails.

Watershed- any piece of land that rainwater can flow off of



Magic of Springs Standards

SC.4.E.6.1

SC.4.E.6.6

SC.6.E.6.2

Magic of Springs Supplemental Activities- Word Search

Name: _____

Created with TheTeachersCorner.net Word Search Maker



The Magic of Springs

Find the word and circle it.

Q	M	A	G	N	I	T	U	D	E	O	U
F	E	B	Z	B	A	Q	U	I	F	E	R
S	E	D	I	M	E	N	T	A	R	Y	K
W	R	W	A	J	L	N	R	Y	S	M	R
M	S	U	A	S	A	N	D	B	O	I	L
I	P	F	S	T	C	W	I	W	I	G	V
N	R	L	I	M	E	S	T	O	N	E	I
E	I	U	F	L	O	R	Z	Y	P	R	L
R	N	N	B	H	T	U	S	D	Q	C	Z
A	G	W	K	K	T	E	A	H	U	J	V
L	R	A	N	J	F	Y	R	I	E	L	M
S	B	E	D	R	O	C	K	P	E	D	S

SPRING	MAGNITUDE	AQUIFER
LIMESTONE	FILTER	BEDROCK
SEDIMENTARY	MINERALS	SAND BOIL
WATERSHED		



Magic of Springs Supplemental Activities- Word Search Answer Sheet

Name: _____

Created with TheTeachersCorner.net Word Search Maker



The Magic of Springs

Find the word and circle it.

Q	M	A	G	N	I	T	U	D	E	O	U
F	E	B	Z	B	A	Q	U	I	F	E	R
S	E	D	I	M	E	N	T	A	R	Y	K
W	R	W	A	J	L	N	R	Y	S	M	R
M	S	U	A	S	A	N	D	B	O	I	L
I	P	F	S	T	C	W	I	W	I	G	V
N	R	L	I	M	E	S	T	O	N	E	I
E	I	U	F	L	O	R	Z	Y	P	R	L
R	N	N	B	H	T	U	S	D	Q	C	Z
A	G	W	K	K	T	E	A	H	U	J	V
L	R	A	N	J	F	Y	R	I	E	L	M
S	B	E	D	R	O	C	K	P	E	D	S

SPRING	MAGNITUDE	AQUIFER
LIMESTONE	FILTER	BEDROCK
SEDIMENTARY	MINERALS	SAND BOIL
WATERSHED		

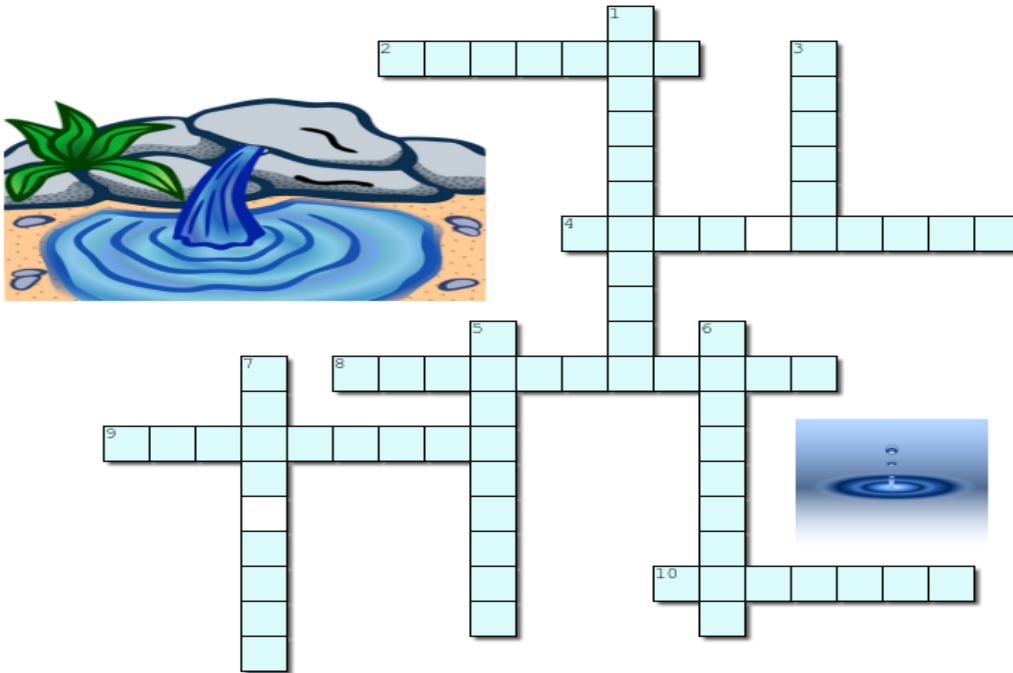


Magic of Springs Supplemental Activities- Cross Word

Name: _____

The Magic of Springs

Complete the puzzle below.



Created using the Crossword Maker on TheTeachersCorner.net

spring magnitude percolation limestone watershed tape grass bedrock
sedimentary aquifer sand boil

Across

- 2.** A cave system made of limestone and filled with fresh water under the state of Florida.
- 4.** An aquatic fresh water grass that resembles strips of tape.
- 8.** A type of rock made from sediment compacting.
- 9.** The amount of water discharged from a spring on a daily basis.
- 10.** The layer of limestone that makes up the bottom layer of Florida.

Down

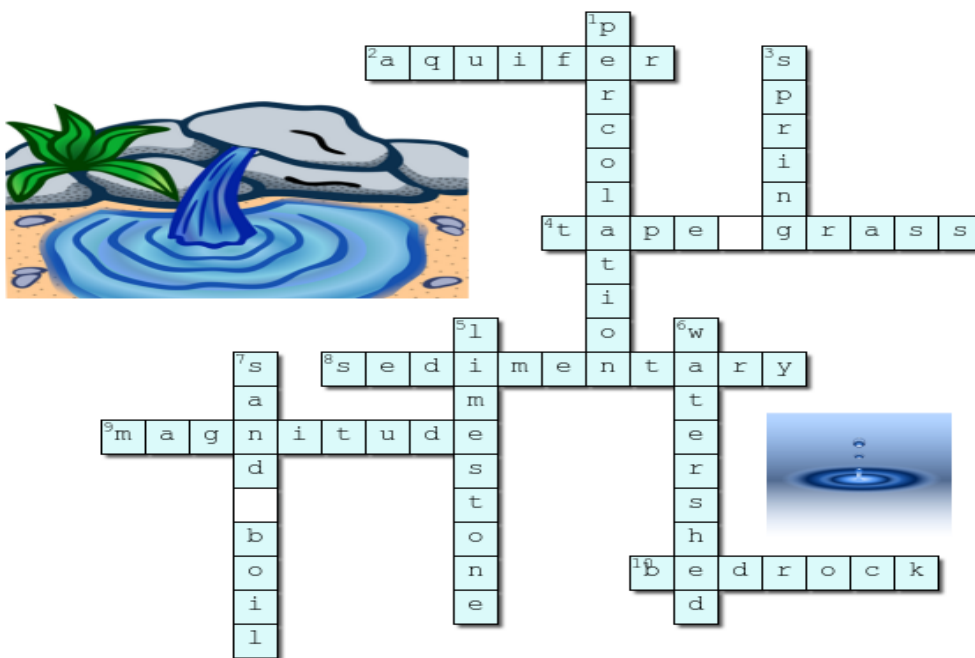
- 1.** Water seeping through the ground.
- 3.** A hole in limestone that has fresh water flowing from it.
- 5.** A sedimentary rock made from dead marine life that makes up the aquifer.
- 6.** Any piece of land that water flows over before it creates a stream or river.
- 7.** A type of spring that has water discharging through sand.

Magic of Springs Supplemental Activities- Complete the Sentence Answer Sheet

Name: _____

The Magic of Springs

Complete the puzzle below.



Created using the Crossword Maker on TheTeachersCorner.net

- spring magnitude percolation limestone watershed tape grass bedrock
- sedimentary aquifer sand boil

Across

- A cave system made of limestone and filled with fresh water under the state of Florida. (**aquifer**)
- An aquatic fresh water grass that resembles strips of tape. (**tape grass**)
- A type of rock made from sediment compacting. (**sedimentary**)
- The amount of water discharged from a spring on a daily basis. (**magnitude**)
- The layer of limestone that makes up the bottom layer of Florida. (**bedrock**)

Down

- Water seeping through the ground. (**percolation**)
- A hole in limestone that has fresh water flowing from it. (**spring**)
- A sedimentary rock made from dead marine life that makes up the aquifer. (**limestone**)
- Any piece of land that water flows over before it creates a stream or river. (**watershed**)
- A type of spring that has water discharging through sand. (**sand boil**)



Magic of Springs Supplemental Websites/Videos

FusionSpark Media, 2013

"A Water's Journey: Hidden Rivers of Florida Part 1 of 3"

<https://www.youtube.com/watch?v=AAyNGdestI0&t=113s>

FusionSpark Media, 2013

"A Water's Journey: Hidden Rivers of Florida Part 2 of 3"

<https://www.youtube.com/watch?v=a3SwCnFCumU>

FusionSpark Media, 2013

"A Water's Journey: Hidden Rivers of Florida Part 3 of 3"

<https://www.youtube.com/watch?v=e8ZvyBcMuX8&t=323s>

Florida Springs Institute, 2020

"Florida Springs Map"

<https://floridaspringsinstitute.org/springs-map-2-0/>

Trips to Discover, 2019

"10 Springs in Florida for the Nature Lover to Visit"

<https://www.tripstodiscover.com/10-springs-in-florida-for-the-nature-lover-to-visit/>