



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!

Tech Trek Pre/Post Test

- 1) What does the word 'geo' mean?
 - a. Hidden
 - b. Lost
 - c. Earth
 - d. Tree

- 2) What does the word 'cache' mean?
 - a. Earth
 - b. Hidden
 - c. Money
 - d. Plant

- 3) What does GPS stand for?
 - a. Global people system
 - b. Going places soon
 - c. Global positioning satellite
 - d. Global positioning system

- 4) Resurrection fern can lose up to 97% of its water content.
 - a. True
 - b. False

- 5) Mimosa Strigillosa leaves close when something touches them.
 - a. True
 - b. False

- 6) Colorful lichens are an indicator of bad air quality.
 - a. True
 - b. False

- 7) The bald cypress' shallow roots allow access to nutrients not found deep within the soil
 - a. True
 - b. False

- 8) Hydrilla needs high, intense light to grow.
- a. True
 - b. False
- 9) Spanish moss has roots.
- a. True
 - b. False
- 10) Eastern lubber grasshoppers contain toxic substances that can help keep predators away.
- a. True
 - b. false



Tech Trek Pre/Post Test Answer Key

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

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.

Tech Trek Vocabulary Words

Geo – means earth

Cache – Hidden

Geo Caching – Looking around earth for hidden treasures

Adaptation – something an animal or plant has that is unique to that organism and helps it survive in its environment

GPS – Global Positioning System, a system to find a position on planet earth by using a GPS that is a piece of technology equipment that acts like a receiver and a computer to help you find a specific location by using longitude and latitude.

Latitude – the angular distance of a place north or south of the earth's equator

Longitude – the measurement east or west of the prime meridian

Prime Meridian – the zero of longitude

Equator – imaginary line that divides the globe from both poles and is the starting point of zero degrees latitude



Tech Trek Standards

SC.4.L.17.4

SC.5.L.17.1

Tech Trek Supplemental Activities- Word Search

Name: _____

Created with TheTeachersCorner.net Word Search Maker

Tech Trek

Circle the Words!

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

GEOCACHE
GPS
LONGITUDE
LICHEN

EARTH
SATELLITE
LATITUDE
DRAGONFLY

HIDDEN
ADAPTATION
FERN



Tech Trek Supplemental Activities- Word Search Answer Sheet

Name: _____

Created with TheTeachersCorner.net Word Search Maker

Tech Trek

Circle the Words!

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

GEOCACHE
GPS
LONGITUDE
LICHEN

EARTH
SATELLITE
LATITUDE
DRAGONFLY

HIDDEN
ADAPTATION
FERN



Tech Trek Supplemental Activities- Complete the Sentence

Name: _____



Complete the Sentence

Use the words in the list below to complete the sentence

Created on TheTeachersCorner.net Fill-in-the-Blank Maker

1. The word geo means _____
2. The word cache means _____
3. GPS stands for _____
4. An adaptation is something an animal or plant does that is very _____ and helps them to survive.
5. A GPS needs at least 3 if not 4 _____
6. Resurrection fern can lose up to _____ of its water content without dying.
7. Saw Palmetto can regrow their _____ and _____ very quickly after a fire.
8. Dragonflies are among the oldest _____ on earth. They have _____ degree field of vision.
9. Ghost shrimp are also called _____ shrimp and are completely _____
10. Spanish moss is an _____

positioning glass satellites flowers hidden 97% epiphyte leaves system
unique earth 360 insects transparent global



Woodland Mammals Supplemental Activities- Complete the Sentence Answer Sheet

Name: _____



Complete the Sentence

Use the words in the list below to complete the sentence

Created on TheTeachersCorner.net Fill-in-the-Blank Maker

1. The word geo means earth
2. The word cache means hidden
3. GPS stands for global positioning system
4. An adaptation is something an animal or plant does that is very unique and helps them to survive.
5. A GPS needs at least 3 if not 4 satellites
6. Resurrection fern can lose up to 97% of its water content without dying.
7. Saw Palmetto can regrow their leaves and flowers very quickly after a fire.
8. Dragonflies are among the oldest insects on earth. They have 360 degree field of vision.
9. Ghost shrimp are also called glass shrimp and are completely transparent
10. Spanish moss is an epiphyte

positioning glass satellites flowers hidden 97% epiphyte leaves system
unique earth 360 insects transparent global





Tech Trek Discussion Questions

- 1) Today many people have GPS technologies in their cars and on their phones. How do you think this has been a positive influence to society and also what negatives do you think have been brought about by this technology, if any?
- 2) Discuss how humanity had to find their way around before maps, compasses, and global positioning systems. What would they use as reference points and how would they communicate with others to give them directions?



Tech Trek Supplemental Websites/Videos

Homeschooling for Kids, 2020

"Geocaching for Kids"

<https://www.homeschooling-ideas.com/geocaching-for-kids.html>

Eduscapes, 2001

"Geocaching with Kids"

<https://eduscapes.com/geocaching/kids.htm>

Parenting Chaos, 2018

"The Ultimate Treasure Hunt- Geocaching with Kids"

<https://parentingchaos.com/geocaching-for-kids/>

Fun 4 Tampa Kids, 2020

"Geocaching"

<https://fun4tampakids.com/Fun-Around-Town/Free-Fun/Geocaching/View-details>

WGCUCuriouskids, 2013

"Geocaching"

<https://www.youtube.com/watch?v=A6QhNlgkuY>