

Title: Fossil Fever Find

By Denise Haglund

Prior Knowledge Needed for Activity:

- Teacher must have working knowledge of GPS set up and operation.
- GPS set waypoints for 15 locations.
- Knowledge of Fossils, Relative Ages of Rocks, Absolute Ages of Rocks, Life and Geologic Time, Early Earth History, and Middle and Recent Earth History.

Safety Issues:

 Teacher will need to be mindful of area in which the activity is being conducted, as well as the maturity of the students in being self-directed. Water sources- ponds, streams, and lakes could create a drowning danger. Types of trees should be evaluated for possible issues. Weather conditions, nearby traffic, and neighborhood safety should be considered. Extra teachers, aides, parents, or administrators would always be welcome to help supervise the activity.

Management Suggestions:

- Activity could be used as a pretest, review for assessment on Fossils and Earth History, or before common assessment for the semester.
- Activity requires estimated 40-50 minutes, with shorter time needed on successive attempts.
- Administrators of both Valley View High School and John Nowlin Elementary will
 need to be contacted before initiating activity to receive proper authorization since
 the activity is set to take place on John Nowlin property.
- Teacher should borrow adequate units for class size and group numbers.
- Teacher should check with Building Maintenance personnel to determine if grass cutting, or other processes will be underway during time needed.
- Teacher should have all GPS locations marked, packets with clues in plastic baggies tied to locations to prevent damage or loss due to rain or wind.
- Students should be grouped with mixed abilities to help all students feel successful.
- Teacher should take map key and answer key to questions outside to facilitate questions.

Major Science Concepts:

GPS navigation- Technology

National Science Education Standards

Unifying Concepts and Processes

- Systems, Order, and Organization
- Evidence, Models, and Explanation
- Change, Constancy, Measurement
- Evolution and Equillibrium
- Form and Function

Earth and Space Science

- Structure of the Earth Systems
- Earth's History

Ch. 13 and 14 Concepts from Glenco Science- Earth Science - Middle School text.

Targeted Grade Level:

8th Grade

Grade Level Expectations:

Inquiry 7.1.B.b. Determine the appropriate tools and techniques to collect data

Inquiry 7.1.B.c. Use a variety of tools and equipment to gather data (e.g., microscopes, thermometers, analog and digital meters, computers, spring scales, balances, metric rulers, graduated cylinders, stopwatches)

Science and Technology 8.1.A.a. Explain how technological improvements, such as those developed for use in space exploration, the military, or medicine, have led to the invention of new products that may improve lives here on Earth (e.g., new materials, freeze-dried foods, infrared goggles, Velcro, satellite imagery, robotics, lasers)

Geology 5.2.A.a. Make inferences about the formation of sedimentary rocks from their physical properties (e.g., layering and the presence of fossils indicate sedimentation) (ES.2.A.6.a.)

Geology 5.2.D.a. Describe the methods used to estimate geologic time and the age of the Earth (e.g., techniques used to date rocks and rock layers, presence of fossils)

Geology 5.2.D.b. Use rock and fossil evidence to make inferences about the age, history, and changing life forms and environment of the Earth (i.e., changes in successive layers of sedimentary rock and the fossils contained within them, similarities between fossils in different geographic locations, similarities between fossils and organisms present today, fossils of organisms indicating changes in climate, fossils of extinct organisms)

Geology 5.2.D.c. Explain the types of fossils and the processes by which they are formed (i.e., replacement, mold and cast, preservation, trace) (ES.2.D.6.a.)

Geology 5.2.D.d. Use fossil evidence to make inferences about changes on Earth and in its environment (i.e., superposition of rock layers, similarities between fossils in different geographical locations, fossils of seashells indicate the area was once underwater) (ES.2.D.6.b.)

Objectives:

- 1. Student will be able to navigate a course using a GPS (Global Positioning System), following clues about fossils, their formation, identification, and the earth's history.
- 2. Student will be able to describe the methods used to estimate geologic time and the age of the Earth (e.g., techniques used to date rocks and rock layers, presence of fossils)
- 3. Student will be able to use rock and fossil evidence to make inferences about the age, history, and changing life forms and environment of the Earth (i.e., changes in successive layers of sedimentary rock and the fossils contained within them, similarities between fossils in different geographic locations, similarities between fossils and organisms present today, fossils of organisms indicating changes in climate, fossils of extinct organisms).
- 4. Student will be able to explain the types of fossils and the processes by which they are formed (i.e., replacement, mold and cast, preservation, trace) (ES.2.D.6.a.)
- 5. Student will be able to use fossil evidence to make inferences about changes on Earth and in its environment (i.e., superposition of rock layers, similarities between fossils in different geographical locations, fossils of seashells indicate the area was once underwater) (ES.2.D.6.b.)

Glossary:

- 1. fossil- the remains, imprints, or traces of prehistoric organisms.
- 2. <u>mold</u>- the impression or cavity in rock left behind by a fossil when a fossil dissolves.
- 3. cast- a copy of a fossil produced inside a mold.
- 4. absolute age- is the age, in years, of a rock or other object.
- 5. <u>relative age</u>- is its age in comparison to the ages of other things.
- 6. unconformity- gap in the rock record.
- 7. <u>Principle of Superposition</u>-states older rocks lie under younger rocks in an undisturbed area.
- 8. permineralized remains- tiny spaces inside a fossil are filled with minerals.
- 9. carbon film- thin film of carbon preserved as a fossil.
- 10. half-life- time needed for half the atoms to decay.
- 11. index fossil- the fossil of a group that lived for a short time but was widespread.
- 12. radioactive decay- process in which some isotopes break down into other isotopes and particles.
- 13. meteorologist- person who studies weather.
- 14. <u>astronomer-</u> person who studies stars, planets.
- 15. paleontologist- scientist who studies fossils
- 16. trace fossils fossilized tracks or other evidence of the activity of the organism.
- 17. geologic time scale division of Earth's history into time units based largely on the types of life forms that lived only during certain periods.
- 18. Pangaea- one giant land mass, made up of all the continents.
- 19. angiosperms- flowering plants, first evolved during the Cretaceous Period



Goal: You will gain experience using your GPS units while reviewing the information from Ch.

13 and 14 in your textbook. (All GPS waypoints are on on the front lawn of John Nowlin

Elementary.)

Directions

- 1. Each group will have a different and UNIQUE set of instructions. DO NOT FOLLOW other groups.
- 2. The order of the stations is NOT the same for every group.
- 3. You will be given your first waypoint number. Using the "Find" command on your GPS, proceed to that waypoint, find the envelope with your group's name, and then follow the directions in that envelope. If your group's name is NOT in the envelope you find, then you're at the wrong location. Backtrack to your last confirmed waypoint, and redo the question to find your next waypoint. Take the clues with you.
- 4. Continue this pattern until you have found all six waypoints.
- 5. Summarize the data you collect in the table on the back of this page.
- 6. When you have reached the final waypoint, have a seat, check to make sure your data collection page is complete, and discuss all your questions with the other group members.



Question Bank-GPS Activity *Denotes correct answer

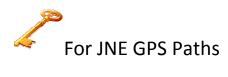
- 1. What is any evidence of ancient life called?
 - A) Half-life (Waypoint-JNE113)
 - B) Fossil* (Waypoint-JNE123)
 - C) Unconformity (Waypoint-JNE912)
 - D) Disconformity (Waypoint-JNE514)
- 2. What are cavities left in rocks when a shell or bone dissolves called?
 - A) Casts (Waypoint-JNE112)
 - B) Molds* (Waypoint-JNE134)
 - C) Original remains (Waypoint-JNE413)
 - D) Carbon films (Waypoint-JNE314)
- 3. Which of the following conditions make fossil formations more likely?
 - A) Buried slowly (Waypoint-JNE212)
 - B) Attacked by scavengers (Waypoint-JNE213)
 - C) Made of hard parts* (Waypoint-JNE234)
 - D) Composed of soft parts (Waypoint-JNE714)
- 4. A fault can be useful in determining which of the following for a group of rocks?
 - A) Absolute age (Waypoint-JNE412)
 - B) Index age (Waypoint-JNE313)
 - C) Radiometric age (Waypoint-JNE214)
 - D) Relative age* (Waypoint-JNE298)
- 5. Which process forms new elements?
 - A) Superposition (Waypoint-JNE114)
 - B) Uniformitarianism (Waypoint-JNE713)
 - C) Permineralization (Waypoint-JNE512)
 - D) Radioactive Decay* (Waypoint-JNE345)

- 6. Which principle states that the oldest rock layer is found at the bottom in an undisturbed stack of rock layers?
 - A) Half life (Waypoint-JNE612)
 - B) Absolute dating (Waypoint-JNE414)
 - C) Superposition* (Waypoint-JNE387)
 - D) Uniformitarianism (Waypoint-JNE613)
- 7. Which type of scientist studies fossils?
 - A) Meteorologist (Waypoint-JNE712)
 - B) Chemist (Waypoint-JNE513)
 - C) Astronomer (Waypoint-JNE614)
 - D) Paleontologist* (Waypoint-JNE456)
- 8. Which are remains of species that existed on Earth for relatively short periods of time, were abundant, and were wide-spread geographically?
 - A) Trace fossils (Waypoint-JNE312)
 - B) Index fossils* (Waypoint-JNE476)
 - C) Carbon films (Waypoint-JNE813)
 - D) Body fossils (Waypoint-JNE914)
- 9. Which term means matching up rock layers in different places?
 - A) Superposition (Waypoint-JNE913)
 - B) Correlation* (Waypoint-JNE565)
 - C) Uniformitarianism (Waypoint-JNE814)
 - D) Absolute dating (Waypoint-JNE812)
- 10. Which type of fossil preservation is a think carbon silhouette of the original organism?
 - A) Cast (Waypoint-JNE112)
 - B) Carbon film* (Waypoint-JNE567)
 - C) Mold (Waypoint-JNE413)
 - D) Permineralized remains (Waypoint-JNE714)
- 11. A record of events in Earth history is the
 - A) Mesozoic Era (Waypoint-JNE214)
 - B) Geologic time scale* (Waypoint-JNE664)
 - C) Organic evolution (Waypoint-JNE512)
 - D) Natural selection (Waypoint-JNE113)
- 12. How many millions of years ago did the era in which you live begin?
 - A) 650 (Waypoint-JNE312)
 - B) 245 (Waypoint-JNE513)
 - C) 1.6 (Waypoint-JNE814)
 - D) 65* (Waypoint-JNE678)
- 13. During what period did the Ice Age occur?
 - A) Pennsylvanian (Waypoint-JNE613)
 - B) Triassic (Waypoint-JNE712)
 - C) Tertiary (Waypoint-JNE914)
 - D) Quaternary* (Waypoint-JNE789)

- 14. What is the earliest form of life?
 - A) Gymnosperm (Waypoint-JNE213)
 - B) Cyanobacterium* (Waypoint-JNE890)
 - C) Angiosperm (Waypoint-JNE212)
 - D) Dinosaur (Waypoint-JNE414)
- 15. During what era did dinosaurs live?
 - A) Mesozoic* (Waypoint -JNE901)
 - B) Paleozoic (Waypoint-JNE114)
 - C) Miocene (Waypoint-JNE313)
 - D) Cenozoic (Waypoint-JNE612)

Extra Questions- not used for this activity

- 16. What animal in Missouri fossil record resembles a modern day elephant?
 - A) Trilobite
 - B) Homo sapiens
 - C) Mastodon*
 - D) Tyrannosaurus rex
- 17. What was the name of the supercontinent that formed at the end of the Paleozoic Era?
 - A) Gondwanaland
 - B) Eurasia
 - C) Laurasia
 - D) Pangaea*
- 18. During which geologic period did modern humans evolve?
 - A) Quaternary*
 - B) Triassic
 - C) Ordovician
 - D) Tertiary
- 19. How many body lobes did Trilobites have?
 - A) One
 - B) Two
 - C) Three*
 - D) Four
- 20. Which group of plants evolved during the Mesozoic Era and is dominant today?
 - A) Gymnosperms
 - B) Angiosperms*
 - C) Ginkgoes
 - D) Algae



Bivalves	Crinoids	Ferns	Trilobites	Gastropods	Fish
Red	Blue	Green	Purple	Orange	DINK
JNE901	JNE345	JNE664	JNE476	JNE890	JNE678
JNE789	JNE890	JNE123	JNE345	JNE456	JNE664
JNE134	JNE476	JNE234	JNE789	JNE123	JNE567
JNE678	JNE901	JNE345	JNE567	JNE476	JNE789
JNE567	JNE456	JNE901	JNE134	JNE234	JNE890
JNE565	JNE298	JNE387	JNE565	JNE298	JNE387

Way Points Used/#of times used

JNE123-2

JNE134-2

JNE234-2

JNE298-2 Endpoint for Blue and Orange

JNE345-3

JNE387-2 Endpoint for Green and Pink

JNE456-2

JNE476-3

JNE565-2 Endpoint for Red and Purple

JNE567-3

JNE664-2

JNE678-2

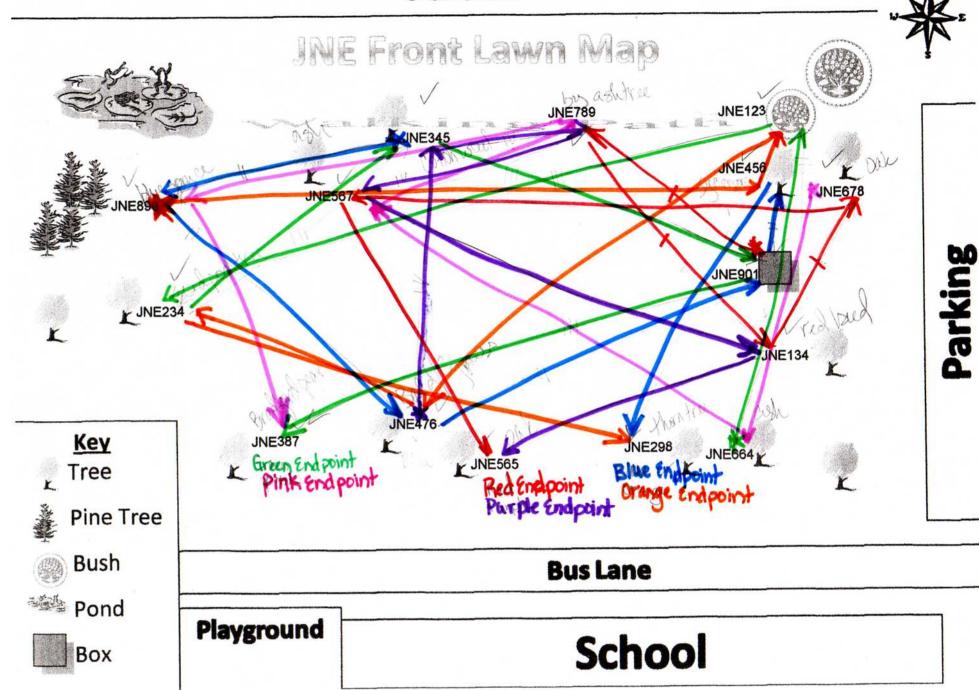
JNE789-3

JNE890-3

JNE901-3

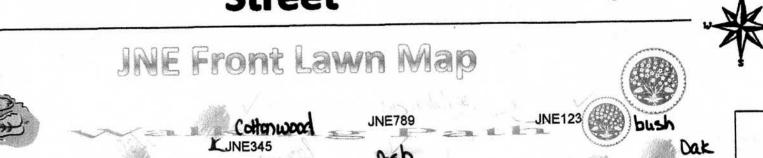
Way Points for Incorrect	JNE912	JNE114
<u>Answers</u>	JNE113	JNE214
JNE112	JNE213	JNE314
JNE212	JNE313	JNE414
JNE312	JNE413	JNE514
JNE412	JNE513	JNE614
JNE512	JNE613	JNE714
JNE612	JNE713	JNE814
JNE712	JNE813	JNE914
JNE812	JNE913	

Street



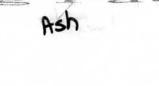
Tree Identification MAP

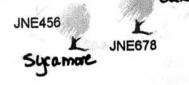
Street





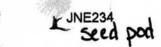






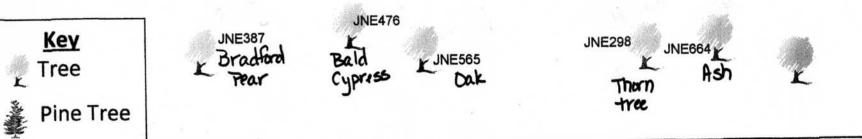


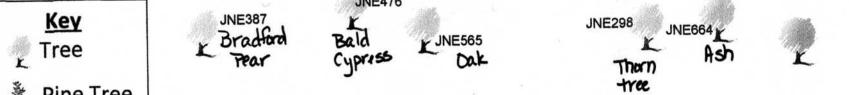




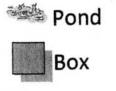


Parking









Bush



School



Student GPS Questions for Bivalves-Red

JNE901 Red	 During what era did dinosaurs live? A) Mesozoic (Waypoint -JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313) D) Cenozoic (Waypoint-JNE612)
JNE789 Red	 During what period did the Ice Age occur? A) Pennsylvanian (Waypoint-JNE613) B) Triassic (Waypoint-JNE712) C) Tertiary (Waypoint-JNE914) D) Quaternary (Waypoint-JNE789)
JNE134 Red	3. What are cavities left in rocks when a shell or bone dissolves called? A) Casts (Waypoint-JNE112) B) Molds (Waypoint-JNE134) C) Original remains (Waypoint-JNE413) D) Carbon films (Waypoint-JNE314)
JNE678 Red	 4. How many millions of years ago did the era in which you live begin? A) 650 (Waypoint-JNE312) B) 245 (Waypoint-JNE513) C) 1.6 (Waypoint-JNE814) D) 65 (Waypoint-JNE678)
JNE567 Red	 5. Which type of fossil preservation is a think carbon silhouette of the original organism? A) Cast (Waypoint-JNE112) B) Carbon film (Waypoint-JNE567) C) Mold (Waypoint-JNE413) D) Permineralized remains (Waypoint-JNE714)
JNE565 Red	 6. Which term means matching up rock layers in different places? A) Superposition (Waypoint-JNE913) B) Correlation (Waypoint-JNE565) C) Uniformitarianism (Waypoint-JNE814) D) Absolute dating (Waypoint-JNE812)



Student GPS Questions for Crinoids-Blue

JNE345	1. Which process forms new elements?
Blue	A) Superposition (Waypoint-JNE114)
	B) Uniformitarianism (Waypoint-JNE713)
	C) Permineralization (Waypoint-JNE512)
	D) Radioactive Decay (Waypoint-JNE345)
JNE890	2. What is the earliest form of life?
Blue	A) Gymnosperm (Waypoint-JNE213)
	B) Cyanobacterium (Waypoint-JNE890)
	C) Angiosperm (Waypoint-JNE212)
	D) Dinosaur (Waypoint-JNE414)
JNE476	3. Which are remains of species that existed on Earth for relatively short
Blue	periods of time, were abundant, and were wide-spread geographically?
	A) Trace fossils (Waypoint-JNE312)
	B) Index fossils (Waypoint-JNE476)
	C) Carbon films (Waypoint-JNE813)
	D) Body fossils (Waypoint-JNE914)
JNE901	4. During what era did dinosaurs live?
Blue	A) Mesozoic (Waypoint -JNE901)
	B) Paleozoic (Waypoint-JNE114)
	C) Miocene (Waypoint-JNE313)
	D) Cenozoic (Waypoint-JNE612)
JNE456	5. Which type of scientist studies fossils?
Blue	A) Meteorologist (Waypoint-JNE712)
	B) Chemist (Waypoint-JNE513)
	C) Astronomer (Waypoint-JNE614)
	D) Paleontologist (Waypoint-JNE456)
JNE298	6. A fault can be useful in determining which of the following for a group of
Blue	rocks?
	A) Absolute age (Waypoint-JNE412)
	B) Index age (Waypoint-JNE313)
	C) Radiometric age (Waypoint-JNE214)
	D) Relative age (Waypoint-JNE298)



Student GPS Questions for Ferns-Green

JNE664	1. A record of events in Earth history is the
Green	A) Mesozoic Era (Waypoint-JNE214)
	B) Geologic time scale (Waypoint-JNE664)
	C) Organic evolution (Waypoint-JNE512)
	D) Natural selection (Waypoint-JNE113)
JNE123	2. What is any evidence of ancient life called?
Green	A) Half-life (Waypoint-JNE113)
	B) Fossil (Waypoint-JNE123)
	C) Unconformity (Waypoint-JNE912)
	D) Disconformity (Waypoint-JNE514)
JNE234	3. Which of the following conditions make fossil formations more likely?
Green	A) Buried slowly (Waypoint-JNE212)
	B) Attacked by scavengers (Waypoint-JNE213)
	C) Made of hard parts (Waypoint-JNE234)
	D) Composed of soft parts (Waypoint-JNE714)
JNE345	4. Which process forms new elements?
Green	A) Superposition (Waypoint-JNE114)
	B) Uniformitarianism (Waypoint-JNE713)
	C) Permineralization (Waypoint-JNE512)
	D) Radioactive Decay (Waypoint-JNE345)
JNE901	During what era did dinosaurs live?
Green	A) Mesozoic (Waypoint -JNE901)
	B) Paleozoic (Waypoint-JNE114)
	C) Miocene (Waypoint-JNE313)
	D) Cenozoic (Waypoint-JNE612)
JNE387	6. Which principle states that the oldest rock layer is found at the bottom in
Green	an undisturbed stack of rock layers?
	A) Half life (Waypoint-JNE612)
	B) Absolute dating (Waypoint-JNE414)
	C) Superposition (Waypoint-JNE387)
	D) Uniformitarianism (Waypoint-JNE613)



Student GPS Questions for Trilobites- Purple

JNE476 Purple	 Which are remains of species that existed on Earth for relatively short periods of time, were abundant, and were wide-spread geographically? A) Trace fossils (Waypoint-JNE312) B) Index fossils (Waypoint-JNE476) C) Carbon films (Waypoint-JNE813) D) Body fossils (Waypoint-JNE914)
JNE345	2. Which process forms new elements?
Purple	A) Superposition (Waypoint-JNE114)
	B) Uniformitarianism (Waypoint-JNE713)
	C) Permineralization (Waypoint-JNE512)
	D) Radioactive Decay (Waypoint-JNE345)
JNE789	3. During what period did the Ice Age occur?
Purple	A) Pennsylvanian (Waypoint-JNE613)
	B) Triassic (Waypoint-JNE712)
	C) Tertiary (Waypoint-JNE914)
	D) Quaternary (Waypoint-JNE789)
JNE567	4. Which type of fossil preservation is a think carbon silhouette of the original
Purple	organism?
	A) Cast (Waypoint-JNE112)
	B) Carbon film (Waypoint-JNE567)
	C) Mold (Waypoint-JNE413)
	D) Permineralized remains (Waypoint-JNE714)
JNE134	5. What are cavities left in rocks when a shell or bone dissolves called?
Purple	A) Casts (Waypoint-JNE112)
	B) Molds (Waypoint-JNE134)
	C) Original remains (Waypoint-JNE413)
	D) Carbon films (Waypoint-JNE314)
JNE565	6. Which term means matching up rock layers in different places?
Purple	A) Superposition (Waypoint-JNE913)
	B) Correlation (Waypoint-JNE565)
	C) Uniformitarianism (Waypoint-JNE814)
	D) Absolute dating (Waypoint-JNE812)



Student GPS Questions for Gastropods- Orange

JNE890 Orange	 What is the earliest form of life? A) Gymnosperm (Waypoint-JNE213) B) Cyanobacterium (Waypoint-JNE890) C) Angiosperm (Waypoint-JNE212) D) Dinosaur (Waypoint-JNE414)
JNE456 Orange	2. Which type of scientist studies fossils? A) Meteorologist (Waypoint-JNE712) B) Chemist (Waypoint-JNE513) C) Astronomer (Waypoint-JNE614) D) Paleontologist (Waypoint-JNE456)
JNE123 Orange	3. What is any evidence of ancient life called? A) Half-life (Waypoint-JNE113) B) Fossil (Waypoint-JNE123) C) Unconformity (Waypoint-JNE912) D) Disconformity (Waypoint-JNE514)
JNE476 Orange	 4. Which are remains of species that existed on Earth for relatively short periods of time, were abundant, and were wide-spread geographically? A) Trace fossils (Waypoint-JNE312) B) Index fossils (Waypoint-JNE476) C) Carbon films (Waypoint-JNE813) D) Body fossils (Waypoint-JNE914)
JNE234 Orange	 5. Which of the following conditions make fossil formations more likely? A) Buried slowly (Waypoint-JNE212) B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts (Waypoint-JNE234) D) Composed of soft parts (Waypoint-JNE714)
JNE298 Orange	 6. A fault can be useful in determining which of the following for a group of rocks? A) Absolute age (Waypoint-JNE412) B) Index age (Waypoint-JNE313) C) Radiometric age (Waypoint-JNE214) D) Relative age (Waypoint-JNE298)



GPS Question/Answer Key for Fish- Pink

JNE678 Pink	 How many millions of years ago did the era in which you live begin? A) 650 (Waypoint-JNE312) B) 245 (Waypoint-JNE513) C) 1.6 (Waypoint-JNE814) D) 65 (Waypoint-JNE678)
JNE664 Pink	 2. A record of events in Earth history is the A) Mesozoic Era (Waypoint-JNE214) B) Geologic time scale (Waypoint-JNE664) C) Organic evolution (Waypoint-JNE512) D) Natural selection (Waypoint-JNE113)
JNE567 Pink	 3. Which type of fossil preservation is a think carbon silhouette of the original organism? A) Cast (Waypoint-JNE112) B) Carbon film (Waypoint-JNE567) C) Mold (Waypoint-JNE413) D) Permineralized remains (Waypoint-JNE714)
JNE789 Pink	 4. During what period did the Ice Age occur? A) Pennsylvanian (Waypoint-JNE613) B) Triassic (Waypoint-JNE712) C) Tertiary (Waypoint-JNE914) D) Quaternary (Waypoint-JNE789)
JNE890 Pink	 5. What is the earliest form of life? A) Gymnosperm (Waypoint-JNE213) B) Cyanobacterium (Waypoint-JNE890) C) Angiosperm (Waypoint-JNE212) D) Dinosaur (Waypoint-JNE414)
JNE387 Pink	 6. Which principle states that the oldest rock layer is found at the bottom in an undisturbed stack of rock layers? A) Half life (Waypoint-JNE612) B) Absolute dating (Waypoint-JNE414) C) Superposition (Waypoint-JNE387) D) Uniformitarianism (Waypoint-JNE613)



GPS Question/Answer Key for Bivalves-Red

JNE901 Red	 During what era did dinosaurs live? A) Mesozoic* (Waypoint -JNE901)
	B) Paleozoic (Waypoint-JNE114)
	C) Miocene (Waypoint-JNE313)
	D) Cenozoic (Waypoint-JNE612)
JNE789	During what period did the Ice Age occur?
Red	A) Pennsylvanian (Waypoint-JNE613)
1100	B) Triassic (Waypoint-JNE712)
	C) Tertiary (Waypoint-JNE914)
	D) Quaternary* (Waypoint-JNE789)
JNE134	3. What are cavities left in rocks when a shell or bone dissolves called?
Red	A) Casts (Waypoint-JNE112)
1100	B) Molds* (Waypoint-JNE134)
	C) Original remains (Waypoint-JNE413)
	D) Carbon films (Waypoint-JNE314)
JNE678	4. How many millions of years ago did the era in which you live begin?
Red	A) 650 (Waypoint-JNE312)
Neu	B) 245 (Waypoint-JNE513)
	C) 1.6 (Waypoint-JNE814)
	D) 65* (Waypoint-JNE678)
JNE567 Red	5. Which type of fossil preservation is a think carbon silhouette of the original organism?
Neu	A) Cast (Waypoint-JNE112)
	B) Carbon film* (Waypoint-JNE567)
	C) Mold (Waypoint-JNE413)
	D) Permineralized remains (Waypoint-JNE714)
JNE565	6. Which term means matching up rock layers in different places?
Red	A) Superposition (Waypoint-JNE913)
	B) Correlation* (Waypoint-JNE565)
	C) Uniformitarianism (Waypoint-JNE814)
	D) Absolute dating (Waypoint-JNE812)
1	



GPS Question/Answer Key for Crinoids-Blue

JNE345 Blue	1. Which process forms new elements? A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345)
JNE890 Blue	 2. What is the earliest form of life? A) Gymnosperm (Waypoint-JNE213) B) Cyanobacterium* (Waypoint-JNE890) C) Angiosperm (Waypoint-JNE212) D) Dinosaur (Waypoint-JNE414)
JNE476 Blue	 3. Which are remains of species that existed on Earth for relatively short periods of time, were abundant, and were wide-spread geographically? A) Trace fossils (Waypoint-JNE312) B) Index fossils* (Waypoint-JNE476) C) Carbon films (Waypoint-JNE813) D) Body fossils (Waypoint-JNE914)
JNE901 Blue	 4. During what era did dinosaurs live? A) Mesozoic* (Waypoint - JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313) D) Cenozoic (Waypoint-JNE612)
JNE456 Blue	 5. Which type of scientist studies fossils? A) Meteorologist (Waypoint-JNE712) B) Chemist (Waypoint-JNE513) C) Astronomer (Waypoint-JNE614) D) Paleontologist* (Waypoint-JNE456)
JNE298 Blue	 6. A fault can be useful in determining which of the following for a group of rocks? A) Absolute age (Waypoint-JNE412) B) Index age (Waypoint-JNE313) C) Radiometric age (Waypoint-JNE214) D) Relative age* (Waypoint-JNE298)



GPS Question/Answer Key for Ferns-Green

JNE664 Green 1. A record of events in Earth history is the A) Mesozoic Era (Waypoint-JNE214) B) Geologic time scale* (Waypoint-JNE664) C) Organic evolution (Waypoint-JNE512) D) Natural selection (Waypoint-JNE113) JNE123 2. What is any evidence of ancient life called? A) Half-life (Waypoint-JNE113) B) Fossil* (Waypoint-JNE123) C) Unconformity (Waypoint-JNE912) D) Disconformity (Waypoint-JNE912) D) Disconformity (Waypoint-JNE514) JNE234 3. Which of the following conditions make fossil formations more likely? A) Buried slowly (Waypoint-JNE212) B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts* (Waypoint-JNE234) D) Composed of soft parts (Waypoint-JNE714) JNE345 Green 4. Which process forms new elements? Green A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 5. During what era did dinosaurs live? A) Mesozoic* (Waypoint-JNE114) C) Miocene (Waypoint-JNE114) C) Miocene (Waypoint-JNE133) D) Cenozoic (Waypoint-JNE133) D) Cenozoic (Waypoint-JNE313)		
B) Geologic time scale* (Waypoint-JNE664) C) Organic evolution (Waypoint-JNE512) D) Natural selection (Waypoint-JNE113) JNE123 2. What is any evidence of ancient life called? A) Half-life (Waypoint-JNE113) B) Fossil* (Waypoint-JNE123) C) Unconformity (Waypoint-JNE912) D) Disconformity (Waypoint-JNE912) D) Disconformity (Waypoint-JNE214) JNE234 3. Which of the following conditions make fossil formations more likely? A) Buried slowly (Waypoint-JNE212) B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts* (Waypoint-JNE234) D) Composed of soft parts (Waypoint-JNE714) JNE345 4. Which process forms new elements? Green A) Superposition (Waypoint-JNE713) C) Permineralization (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 5. During what era did dinosaurs live? A) Mesozoic* (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE114)	JNE664	1. A record of events in Earth history is the
C) Organic evolution (Waypoint-JNE512) D) Natural selection (Waypoint-JNE113) JNE123 Green A) Half-life (Waypoint-JNE113) B) Fossil* (Waypoint-JNE123) C) Unconformity (Waypoint-JNE912) D) Disconformity (Waypoint-JNE514) JNE234 Green A) Buried slowly (Waypoint-JNE212) B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts* (Waypoint-JNE213) C) Made of soft parts (Waypoint-JNE714) JNE345 Green A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 Green A) Mesozoic* (Waypoint-JNE114) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE114)	Green	A) Mesozoic Era (Waypoint-JNE214)
D) Natural selection (Waypoint-JNE113) JNE123 Green A) Half-life (Waypoint-JNE113) B) Fossil* (Waypoint-JNE123) C) Unconformity (Waypoint-JNE912) D) Disconformity (Waypoint-JNE514) JNE234 Green A) Buried slowly (Waypoint-JNE212) B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts* (Waypoint-JNE213) C) Made of soft parts (Waypoint-JNE714) JNE345 Green A) Superposition (Waypoint-JNE714) JNE345 Green A) Superposition (Waypoint-JNE713) C) Permineralization (Waypoint-JNE713) C) Permineralization (Waypoint-JNE712) D) Radioactive Decay* (Waypoint-JNE345) JNE901 Green A) Mesozoic* (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE913) C) Miocene (Waypoint-JNE313)		B) Geologic time scale* (Waypoint-JNE664)
JNE123 Green 2. What is any evidence of ancient life called? A) Half-life (Waypoint-JNE113) B) Fossil* (Waypoint-JNE123) C) Unconformity (Waypoint-JNE912) D) Disconformity (Waypoint-JNE514) JNE234 3. Which of the following conditions make fossil formations more likely? A) Buried slowly (Waypoint-JNE212) B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts* (Waypoint-JNE213) C) Made of soft parts (Waypoint-JNE714) JNE345 4. Which process forms new elements? Green A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE512) JNE901 Green A) Mesozoic* (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)		C) Organic evolution (Waypoint-JNE512)
JNE123 Green 2. What is any evidence of ancient life called? A) Half-life (Waypoint-JNE113) B) Fossil* (Waypoint-JNE123) C) Unconformity (Waypoint-JNE912) D) Disconformity (Waypoint-JNE514) JNE234 3. Which of the following conditions make fossil formations more likely? A) Buried slowly (Waypoint-JNE212) B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts* (Waypoint-JNE213) C) Made of soft parts (Waypoint-JNE714) JNE345 4. Which process forms new elements? Green A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE512) JNE901 Green A) Mesozoic* (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)		D) Natural selection (Waypoint-JNE113)
Green A) Half-life (Waypoint-JNE113) B) Fossil* (Waypoint-JNE912) C) Unconformity (Waypoint-JNE514) JNE234 Green 3. Which of the following conditions make fossil formations more likely? A) Buried slowly (Waypoint-JNE212) B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts* (Waypoint-JNE234) D) Composed of soft parts (Waypoint-JNE714) JNE345 Green 4. Which process forms new elements? Green A) Superposition (Waypoint-JNE713) C) Permineralization (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 S. During what era did dinosaurs live? A) Mesozoic* (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE9114) C) Miocene (Waypoint-JNE313)		
B) Fossil* (Waypoint-JNE123) C) Unconformity (Waypoint-JNE912) D) Disconformity (Waypoint-JNE514) 3. Which of the following conditions make fossil formations more likely? A) Buried slowly (Waypoint-JNE212) B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts* (Waypoint-JNE234) D) Composed of soft parts (Waypoint-JNE714) JNE345 Green 4. Which process forms new elements? Green A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 Green 5. During what era did dinosaurs live? A) Mesozoic* (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE114)	JNE123	2. What is any evidence of ancient life called?
C) Unconformity (Waypoint-JNE912) D) Disconformity (Waypoint-JNE514) 3. Which of the following conditions make fossil formations more likely? A) Buried slowly (Waypoint-JNE212) B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts* (Waypoint-JNE234) D) Composed of soft parts (Waypoint-JNE714) JNE345 4. Which process forms new elements? Green A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 5. During what era did dinosaurs live? A) Mesozoic* (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE901) C) Miocene (Waypoint-JNE313)	Green	A) Half-life (Waypoint-JNE113)
D) Disconformity (Waypoint-JNE514) 3. Which of the following conditions make fossil formations more likely? A) Buried slowly (Waypoint-JNE212) B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts* (Waypoint-JNE234) D) Composed of soft parts (Waypoint-JNE714) JNE345 Green 4. Which process forms new elements? Green A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 5. During what era did dinosaurs live? A) Mesozoic* (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE1313)		B) Fossil* (Waypoint-JNE123)
JNE234 Green 3. Which of the following conditions make fossil formations more likely? A) Buried slowly (Waypoint-JNE212) B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts* (Waypoint-JNE234) D) Composed of soft parts (Waypoint-JNE714) JNE345 Green 4. Which process forms new elements? A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 5. During what era did dinosaurs live? A) Mesozoic* (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)		C) Unconformity (Waypoint-JNE912)
Green A) Buried slowly (Waypoint-JNE212) B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts* (Waypoint-JNE234) D) Composed of soft parts (Waypoint-JNE714) JNE345 4. Which process forms new elements? Green A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 5. During what era did dinosaurs live? Green A) Mesozoic* (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)		D) Disconformity (Waypoint-JNE514)
Green A) Buried slowly (Waypoint-JNE212) B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts* (Waypoint-JNE234) D) Composed of soft parts (Waypoint-JNE714) JNE345 4. Which process forms new elements? Green A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 5. During what era did dinosaurs live? Green A) Mesozoic* (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)		
B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts* (Waypoint-JNE234) D) Composed of soft parts (Waypoint-JNE714) 4. Which process forms new elements? Green A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 5. During what era did dinosaurs live? Green A) Mesozoic* (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)	JNE234	3. Which of the following conditions make fossil formations more likely?
C) Made of hard parts* (Waypoint-JNE234) D) Composed of soft parts (Waypoint-JNE714) 4. Which process forms new elements? Green A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 Green A) Mesozoic* (Waypoint -JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)	Green	A) Buried slowly (Waypoint-JNE212)
D) Composed of soft parts (Waypoint-JNE714) 4. Which process forms new elements? Green A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 5. During what era did dinosaurs live? Green A) Mesozoic* (Waypoint -JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)		B) Attacked by scavengers (Waypoint-JNE213)
JNE345 Green 4. Which process forms new elements? A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 5. During what era did dinosaurs live? Green A) Mesozoic* (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)		C) Made of hard parts* (Waypoint-JNE234)
Green A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 5. During what era did dinosaurs live? Green A) Mesozoic* (Waypoint -JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)		D) Composed of soft parts (Waypoint-JNE714)
Green A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 5. During what era did dinosaurs live? Green A) Mesozoic* (Waypoint -JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)		
B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) JNE901 5. During what era did dinosaurs live? Green A) Mesozoic* (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)	JNE345	4. Which process forms new elements?
C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345) 5. During what era did dinosaurs live? Green A) Mesozoic* (Waypoint-JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)	Green	
D) Radioactive Decay* (Waypoint-JNE345) JNE901 5. During what era did dinosaurs live? Green A) Mesozoic* (Waypoint -JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)		B) Uniformitarianism (Waypoint-JNE713)
JNE901 5. During what era did dinosaurs live? Green A) Mesozoic* (Waypoint -JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)		C) Permineralization (Waypoint-JNE512)
Green A) Mesozoic* (Waypoint -JNE901) B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)		D) Radioactive Decay* (Waypoint-JNE345)
B) Paleozoic (Waypoint-JNE114) C) Miocene (Waypoint-JNE313)	JNE901	5. During what era did dinosaurs live?
C) Miocene (Waypoint-JNE313)	Green	A) Mesozoic* (Waypoint -JNE901)
		B) Paleozoic (Waypoint-JNE114)
D) Cenozoic (Waypoint-JNE612)		C) Miocene (Waypoint-JNE313)
		D) Cenozoic (Waypoint-JNE612)
JNE387 6. Which principle states that the oldest rock layer is found at the bottom in	JNE387	6. Which principle states that the oldest rock layer is found at the bottom in
Green an undisturbed stack of rock layers?	Green	an undisturbed stack of rock layers?
A) Half life (Waypoint-JNE612)		A) Half life (Waypoint-JNE612)
B) Absolute dating (Waypoint-JNE414)		B) Absolute dating (Waypoint-JNE414)
C) Superposition* (Waypoint-JNE387)		C) Superposition* (Waypoint-JNE387)
D) Uniformitarianism (Waypoint-JNE613)		D) Uniformitarianism (Waypoint-JNE613)



GPS Question/Answer Key for Trilobites- Purple

JNE476 Purple	 Which are remains of species that existed on Earth for relatively short periods of time, were abundant, and were wide-spread geographically? A) Trace fossils (Waypoint-JNE312) B) Index fossils* (Waypoint-JNE476) C) Carbon films (Waypoint-JNE813) D) Body fossils (Waypoint-JNE914)
JNE345 Purple	 2. Which process forms new elements? A) Superposition (Waypoint-JNE114) B) Uniformitarianism (Waypoint-JNE713) C) Permineralization (Waypoint-JNE512) D) Radioactive Decay* (Waypoint-JNE345)
JNE789 Purple	 3. During what period did the Ice Age occur? A) Pennsylvanian (Waypoint-JNE613) B) Triassic (Waypoint-JNE712) C) Tertiary (Waypoint-JNE914) D) Quaternary* (Waypoint-JNE789)
JNE567 Purple	 4. Which type of fossil preservation is a think carbon silhouette of the original organism? A) Cast (Waypoint-JNE112) B) Carbon film* (Waypoint-JNE567) C) Mold (Waypoint-JNE413) D) Permineralized remains (Waypoint-JNE714)
JNE134 Purple	 5. What are cavities left in rocks when a shell or bone dissolves called? A) Casts (Waypoint-JNE112) B) Molds* (Waypoint-JNE134) C) Original remains (Waypoint-JNE413) D) Carbon films (Waypoint-JNE314)
JNE565 Purple	 6. Which term means matching up rock layers in different places? A) Superposition (Waypoint-JNE913) B) Correlation* (Waypoint-JNE565) C) Uniformitarianism (Waypoint-JNE814) D) Absolute dating (Waypoint-JNE812)



GPS Question/Answer Key for Gastropods- Orange

JNE890 Orange	 What is the earliest form of life? A) Gymnosperm (Waypoint-JNE213) B) Cyanobacterium* (Waypoint-JNE890) C) Angiosperm (Waypoint-JNE212) D) Dinosaur (Waypoint-JNE414)
JNE456 Orange	 2. Which type of scientist studies fossils? A) Meteorologist (Waypoint-JNE712) B) Chemist (Waypoint-JNE513) C) Astronomer (Waypoint-JNE614) D) Paleontologist* (Waypoint-JNE456)
JNE123 Orange	3. What is any evidence of ancient life called? A) Half-life (Waypoint-JNE113) B) Fossil* (Waypoint-JNE123) C) Unconformity (Waypoint-JNE912) D) Disconformity (Waypoint-JNE514)
JNE476 Orange	 4. Which are remains of species that existed on Earth for relatively short periods of time, were abundant, and were wide-spread geographically? A) Trace fossils (Waypoint-JNE312) B) Index fossils* (Waypoint-JNE476) C) Carbon films (Waypoint-JNE813) D) Body fossils (Waypoint-JNE914)
JNE234 Orange	 5. Which of the following conditions make fossil formations more likely? A) Buried slowly (Waypoint-JNE212) B) Attacked by scavengers (Waypoint-JNE213) C) Made of hard parts* (Waypoint-JNE234) D) Composed of soft parts (Waypoint-JNE714)
JNE298 Orange	 6. A fault can be useful in determining which of the following for a group of rocks? A) Absolute age (Waypoint-JNE412) B) Index age (Waypoint-JNE313) C) Radiometric age (Waypoint-JNE214) D) Relative age* (Waypoint-JNE298)



GPS Question/Answer Key for Fish- Pink

JNE678 Pink	 How many millions of years ago did the era in which you live begin? A) 650 (Waypoint-JNE312) B) 245 (Waypoint-JNE513) C) 1.6 (Waypoint-JNE814) D) 65* (Waypoint-JNE678)
JNE664 Pink	 2. A record of events in Earth history is the A) Mesozoic Era (Waypoint-JNE214) B) Geologic time scale* (Waypoint-JNE664) C) Organic evolution (Waypoint-JNE512) D) Natural selection (Waypoint-JNE113)
JNE567 Pink	 3. Which type of fossil preservation is a think carbon silhouette of the original organism? A) Cast (Waypoint-JNE112) B) Carbon film* (Waypoint-JNE567) C) Mold (Waypoint-JNE413) D) Permineralized remains (Waypoint-JNE714)
JNE789 Pink	 4. During what period did the Ice Age occur? A) Pennsylvanian (Waypoint-JNE613) B) Triassic (Waypoint-JNE712) C) Tertiary (Waypoint-JNE914) D) Quaternary* (Waypoint-JNE789)
JNE890 Pink	 5. What is the earliest form of life? A) Gymnosperm (Waypoint-JNE213) B) Cyanobacterium* (Waypoint-JNE890) C) Angiosperm (Waypoint-JNE212) D) Dinosaur (Waypoint-JNE414)
JNE387 Pink	 6. Which principle states that the oldest rock layer is found at the bottom in an undisturbed stack of rock layers? A) Half life (Waypoint-JNE612) B) Absolute dating (Waypoint-JNE414) C) Superposition* (Waypoint-JNE387) D) Uniformitarianism (Waypoint-JNE613)

Group name:

out name.	Answer to Question	Reason this is the	Next waypoint #
Current		correct answer.	<i>''</i>
Waypoint			
Elevation			
Lakikuda			
Latitude			
Longitude			
Comment			
Current			
Waypoint Elevation	- 		
Elevation			
Latitude			
Longitude			
	_		
Current			
Waypoint	_		
Elevation			
Latitude			
Longitude			
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Current			
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