Station #1 Look at the cross section. List the geologic sequence in order from Oldest to Youngest. oldest ____youngest Define the following: Law of Crosscutting_____ Law of Superposition_____ Law of Original Horizontality_____

Solve the following half-life problems.

	7 years. If you began with 48kg of it, how much
How many years would it take 1kg of U-2	 235 to decay to 1/32th if its half-life is 4.5 billion
If 1/8 th is still radioactive after 72 years h substance?	lave gone by, what is the half-life of the
n #3	
e fossil	
at the samples and determine if they are for ption of a fossil.	
a.	
b.	
C.	
d.	
e.	
n #4	
the organism/description with the period	<u>l</u> in which it was common.
a.	e.
	f.
-	g.
d.	h.
	would still be radioactive after 35 years? How many years would it take 1kg of U-2 years? If 1/8 th is still radioactive after 72 years h substance? If the samples and determine if they are for ption of a fossil. abcde. If 44 The organism/description with the periodabcc.

Give the common name of each fossil and determine the type of fossilization.

Name	Type of fossilization
a	
b	
c	
d	
e	
Station # 6	
What are the criteria for an index fossil?	
Identify the following index fossils	
a	
b	
Station # 7	
Identify the specimens as a cast, mold or a	actual remains.
a	<u> </u>
b	
c	
d	
e	

Station # 8
Identify the following sedimentary rocks and identify the environment in which they form.
a
b
C
Station # 9
Identify the following fossil from the Precambrian.
This photo was taken in Glacier National Park in Montana. What is the significance of finding this life form here?
Station #10
Identify the fossil names represented by the plastic models and say whether it was from a land or water organism.
Name Land or water
a
b
C

_	anisms changed over time and one for each of the specimens.	could be identified by a certain feature	e. Give the
a			
b			
c			
d			
Station #1	12		
Identify th	ne fossil and give the <u>era</u> in whic	ch it was dominant.	
<u>Name</u>		<u>Era</u>	
a			
b			
c			
Station # Look at th		e its name, order and period in which it	thrived.
<u>Name</u>	Order	·	
a			
b			

Identify the location of the following "big fossil finds" and the type of fossils found there.

If it is in the United States, name the state and if it is in another country, just give the country name.

a.	Morrison formation	
b.	Burgess Shale	
c.	Green River	
d.	Petrified Forest	
e.	Rancho La Brea	
f.	Liaoning	
g.	Messil Pit	
h.	Solnhofen	

Station #15

Look at the pictures of the fossils and tell what type of environment in which they lived.

a.	
b.	
C.	
d.	

Station # 16

Look at this picture. There have been instances where this animal was preserved with skin and fur intact. What type of preservation method usually occurred in order for this to happen?

Put the following organism in order in which they occurred from oldest (1 st) to youngest (5 th)
birds
jellyfish
mammals
jawless fish
flowering trees
Station # 18
Look at the stratigraphic sequences. Using the symbols draw the sequence in which they occurred.

Station # 19 At the end of which period did the following extinctions occur? a. Dinosaurs b. Brachiopods c. Wooly mammoth d. 95% of all species e. Trilobites Station # 20 During which period did the following land changes occur? a. Africa and North America came together to form the Appalachians b. Most of the US was covered in warm shallow seas c. Formation of Pangaea d. Glaciers covered much of North America and Europe Station # 21

Identify the types of fossilization	in the following	pictures.
a		-
b		_
c		_

Identify the unconformity shown in each diagram. b. _____ Station #23 What period comes after each of these? a. Devonian b. Jurassic c. Cambrian d. Tertiary Station # 24 Identify the mode of life for the following: a. Cephalopoda b. Arthropoda c. Bryozoa d. Trilobita Station # 25 What are the three body segments of a trilobite?

e. Belemites

Match the scientist to their contribution.		
a.	Nicholaus Steno	uniformitarianism
b.	James Hutton	catastrophism and special creations
C.	Charles Lyell	superposition and original horizontality
d.	George Cuvier	1 st mapped strata based on fossil content
e.	William Smith	earth is dynamic and changing
Statio	n # 27	
Identif	ry the common mineral	s that made up the skeletons of each type of organism.
Choos	e from silica, calcite, ar	agonite or calcium phosphate
a.	Vertebrates	
b.	Diatoms	
c.	Brachiopods	
d.	Echinoderms	
Statio	n # 28	
For th	ne common fossils iden	tify the characteristic feature of each.
a.	Trilobite	
b.	Gastropod	
c.	Ammonoid	
d.	Blastoid	

For each era giv	e the general type of organisms that dominated during that time.
Precambrian	
Paleozoic	
Mesozoic	
Cenozoic	
Station # 30	
Put the followir	ng in order from oldest to youngest
	youngest
	oldest