Los Angeles County Natural History Museum Field Trip Name
Using the exhibits in the museum, answer the following questions.
The E. Hadley Stuart Gallery of Gems and Minerals
1. Name four of the really big minerals just outside the mineral hall. Which of the really large minerals outside this hall is your favorite? How come?
<u>Hixon Gem Vault</u>
1. Have diamonds ever been found in California? If so, describe where and how they were found.
2. What is the California State gemstone?
Where is it found?
Is it found anywhere else in the world?
3. What causes the stars seen in star sapphires and star rubies?
4. How many carats is the big blue topaz?
5. How many carats is the opal sphere? Where was it mined?
6. What two minerals makeup moonstone?
Just outside the vault7. What two minerals are commonly referred to as jade?
8. How many pounds is the Quartz crystal ball?
Basics of Mineralogy Exhibit (Across from the Gem Vault in the dark) 1. What kind of light causes fluorescence in some minerals? List three minerals that fluoresce in each type of light.

2. How do some minerals fluoresce? What colors do they fluoresce? What is actually going on?

Systematic Mineralogy Exhibit (Against the wall in the glass cases)

1. What is the name of a red variety of garnet? How about a green one? Why are they different colors? (Hint: Garnets are Nesosilicates)
2. Find at least three varieties of the mineral group feldspar (a tectosilicate) and name them below. How do they differ from one another? (Hint: Feldspars are Tectosilicates, but are different than quartz)
3. What are some minerals that contain Mercury?
4. What are some minerals that contain Lead?
5. What is your favorite Phosphate? Cyclosilicate?
Phyllosilicate? Oxide? Sulfide?
Carbonate? Native Element? California Minerals Exhibit Area 1. Make a list of the biggest minerals in this exhibit which came from San Diego county (Hint: San Diego county is in the Peninsular Range). Circle the one that you thought was most striking in appearance.
2. Make a list of the biggest minerals in this exhibit which came from the Desert Regions of California. Circle the one that you thought was most striking in appearance.
3. Make a list of the biggest minerals in this exhibit which came from the Sierra Nevada of California. Circle the one that you thought was most striking in appearance.
4. Make a list of the biggest minerals in this exhibit which came from the Coast Ranges of California. Circle the one that you thought was most striking in appearance.

California Minerals Exhibit Area

5. In what California region are natural specimens of gold, silver, and platinum found?

In what two types of deposits do these metals typically occur?

- 6. How big is the Mojave Nugget?
- 7. What do they mix with gold to make the different grades (like 24, 18, 16 karat)?

Why would they do this?

General First Floor Lobby Questions

These two questions are found in the main lobby somewhere.

- 1. What types of critters are fossilized in the amber?
- 2. Who is fighting in the main exhibit hall?
- 3. What is a Megamouth? Who is hanging out with the Megomouth (in its tank)?
- 4. When did they catch the Catalina Island Oarfish? Where do they usually live?

The New Dinosaur Hall Exhibit

- 1) How many skeletons did it take the create the Triceratops in front of you? Where were they discovered? What did they eat? When did these critters go extinct?
- 2) Compare and contrast the ornithiscians with the saurischians? Give a few examples of each.
- 3) What was a Sauropelta? What was weird about it? Where was it discovered? What did they eat? When did these critters live?
- 4) What was a Cryolophosaurus? What was weird about it? Where was it discovered? What did they eat? When did these critters live?

The New Dinosaur Hall Exhibit									
5) What	was	Tiany	ulong?	What was	wei	ird about it?	Where was it d	liscovered?	What
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did they eat? When	1 did these critte	ers live?			
6) What was Mamenchisaurus? How big was it? Where were they discovered? What did they eat? When did these critters live? How much of this fossil is original? Why do you think that is the case?					
7) Find the one touc	ch screen with t	the following i	nfo on itfill	l in the blank area	
Critter	Length	Weight	Diet	When?	
Plateosaurus					
Allosaurus					
Carnotaurus					
Majungasaurus					
9) Describe the conditions that existed in the following time periods when the dinosaurs exisited. Include critters that lived in each period too. Triassic (251-200 MYA):					
Jurassic (200-145 N	ЛҮА):				
Cretaceous (145-65	MYA):				
10) Find the touch s fossil bearing rock		the blank are		wing famous dinosaur Example Critters	
Hell Creek Formation					
Morrison Formation					
Chinle Formation					

The New Dinosaur Hall Exhibit

- 11) What was Plateocarpus tympaniticus? How big was it? Where were they discovered? What did they eat? When did these critters live? How much of this fossil is original? Why do you think that is the case?
- 12) What is the western interior seaway (hint: this display is on a wall)? Who lived in this area?

Dino Hall - continued

- 13) How many ammonites are displayed on the wall?
- 14) Who was Struthiomimus? What did they eat? When did these critters live? What critter did he/she get their name?
- 15) Who was Carnotaurus sastrei? What did they eat? When did these critters live?
- 16) Who was Allosaurus fragilis? What did they eat? When did these critters live?
- 17) Who was Coelophysis bauri? What did they eat? When did these critters live?
- 18) Now it is time to play name that horny head.

Horn Morphology (shape, number) When?

Triceratops

Styracosaurus

Einiosaurus

Mezzanine Area (upstairs-still dinosaur area though)

- 1) What is a Pterosaur? Name four, and when and where they lived.
- 2) How many dinosaurs have been found in California? What were they? Where were they found?
- 3) Who was Corythosaurus casuaris? What was weird about it? Where was it discovered? What did they eat? When did these critters live?

Mezzanine Area (upstairs-still dinosaur area though)

- 4) Who are the two critters they had on display that had crests and probably make hornlike noises?
- 5) How much heavier is your brain than a T. Rex?
- 6) This museum has the only complete life span groups of T. Rex. How long is the T. Rex at age 2? Age 14? Age 25?
- 7) What did they use to find a tumor on a Triceratops?
- 8) Describe the arrangement of the dinosaur eggs for the following critters:

Preprismatoolithus:

Oviraptoridae:

Spheroolithus:

Macroelongatoolithus:

When and where were these egg clutches found?

- 9) Finally, Velociraptor, the star of Jurassic Park, is here. Name two things strange about the real one and the movie one...
- 10) Find the floor map of the dinosaur fossil locations. Name the localities where dinos can be found.
- 11) What do the codes mean? Example: LMC 04-04-MT

Birds of the World Exhibit

Find the biggest darn birds you can find. What are they? Name three....

- 1) Get on the scale, and find out how much your bones weigh.
- 2) How much do the birds of the extinct elephant bird weigh? How about the modern ostrich?

African Mammals Name five critters	<u>s Display</u> from this exhibit. Include	e their scientific name	e and common name.
Common Name		Scientific Name	
	Display -More bones, yea critters, and fill in the em		
	Kind of Critter	<u>r</u> <u>Diet</u>	When it Lived
Miohippus annecte	ens		
Epicyon haydeni			
Paramylodon harla	nni		
Panthera atrox			
Titanotylopus neb.			
Megacerops colo.			
Up in the Mezzan	ine Area:		
Paleoparadoxiid			
Dusisiren jordani			
Teleoceras fossiger	r		
Northrotheriops sh	astensis		

Whose poop can be found up in the mezzanine (yes, it is a real question)?

North American Mammals Display

Name five critters from this exhibit. Include	e their scientific name and common name.
Common Name	Scientific Name
Dino Lab-Second Floor	
1) Who was Edmontosaurus? Where was it	found? When did these critters live?
2) Dinosaurs survived in the form of their de	ownsized descendants, the
3) Name two dinosaurs that lived in the nort	thcentral US.
4) Whose natural mold footprint do they havit found? When did these critters live?	ve on the far wall of the dinolab? Where was
5) What are the lab folks working on inside	the fishbowl?
Visible Vault	
What kind of stuff is in the visible vault?	
What kinds of minerals are some of this stud	ff made?
Second Floor Lobby	
How big is the ammonite on display here?	