

Extra Credit Optional Field Trip - American Museum of Natural History

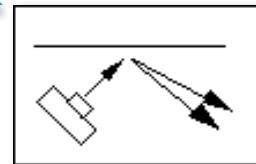
Geology 001 – Physical Geology / Planet Earth

For directions how to get to the AMNH: <http://www.amnh.org/>

Note: Basic museum admission price is not fixed – we recommend you pay \$1.00.

Instructions: Go to the American Museum of Natural History. Tour the halls listed below, take photos and answer the questions. We've designed this to be something of a scavenger hunt - a series of simple facts to gather as you wander through the museum exhibits. Hand in your photo essay (typed, please) with your ticket receipt showing the date you attended (staple it on). This is due before your last lab class at the end of the semester. You will need a **flash camera** with at least 3 mp resolution or a disposable film camera. If taking photos through glass, you must shoot at a 45° angle so the flash reflects away from the camera.

If you are taking digital photos, you may submit your report as a Power Point or MS Word document. To save paper and ink, you may email the report, upload it to Blackboard, or deliver it on a CD to your lab instructor (ask them for specific instructions). If you email it, don't assume it was received unless you get an email confirmation back.



Each photo in your photo essay must be captioned with a paragraph describing the subject of the photo and including the information and responses to questions specified below.

Note: If any of the halls below are closed on the day you go, you may substitute photos of your choice from any other exhibit.

Gottesman Hall of Planet Earth (First Floor)

Photograph each of the following and note the **name** of the specimen, the **location** it comes from, and any information on **how it formed**.

- 1 - 4. Any volcanic rock, any intrusive igneous rock, any sedimentary rock, and any metamorphic rock.
5. Any fossil (Note the **name** of the fossil and its **age** or **geologic period**).

Arthur Ross Hall of Meteorites (First Floor)

6. Photograph a chondritic meteorite. What is a chondrule? When (how long ago) did they form in the history of the solar system?
7. Photograph an iron meteorite. Note the **name** and where it was discovered.
8. Photograph a martian meteorite. Note the **name** and where it was discovered. How do we know this meteorite came from Mars?

Guggenheim Hall of Gems and Minerals (First Floor)

Photograph each of the following and note the **name** of the specimen, the **location** it comes from, and the **mineral family** it comes from.

- 9 - 12. One of each: nesosilicate, cyclosilicate, phyllosilicate, tectosilicate
13. One example of an ore mineral. Note **type** of ore (gold, silver, copper, etc.)
14. One example of a mineral showing cleavage. Note **type** (e.g. two directions @ 90°)
15. One example of a mineral showing a well-formed crystal.
16. One example of a mineral showing an interesting optical property. Note **property**.

Fossil Halls (Vertebrate Origins / Dinosaurs / Mammals) (Fourth Floor)

17. Find an example of a marine or flying reptile. Note its **name**, **age** and **place of origin**.
18. Find a carnivorous dinosaur. Note its **name**, **age**, and **place of origin**.
19. Find an herbivorous dinosaur. Note its **name**, **age**, and **place of origin**.
20. Find an extinct elephant from North America. Give its **name**, **age**, and **place of origin**.

DIRECTIONS to the AMNH

Entrances:

The Museum is located at **79th Street and Central Park West** and is easily reached by public transportation. The main entrance to the Rose Center for Earth and Space is located at 81st Street between Central Park West and Columbus Avenue.

Museum Entrance Hours:

- **Main Entrance** (79th St. at Central Park West): Every day from 10 a.m. – 5:45 p.m.
- **Subway Entrance** (Lower Level): Every day from 10 a.m. – 5:45 p.m.
- **Rose Center Entrance** (81st St. between C.P.W. and Columbus Ave.): Every day from 10 a.m. – 5:45 p.m.

Transportation By Subway:

Take the B (weekdays only) or C to 81st Street. Two blocks west of the Museum, the 1 train stops at Broadway and West 79th Street. For a full size subway map, go to the Metropolitan Transit Authority (MTA) Web site.

From Hofstra University and Long Island:

If you are traveling from Long Island, please visit the Long Island Railroad Web site for convenient maps and schedule information. Take the LIRR to Penn Station. From within Penn Station take the B or C subway uptown to 81st street (see above).

Parking:

If you drive to the museum you may be able to find metered parking on Columbus Avenue (one block from Central Park West). The Museum has a parking garage (driveway entrance on 81st street) but it is expensive (about \$25 for two-five hours, plus 18% tax).

For more information, visit the AMNH website at <http://www.amnh.org>

