

## 2009 SCAVENGER HUNT for GRADES 8+

### **STOP 1 MAD SCIENCE (WEST HALL)**

Normal ice changes from a solid to a liquid when it is heated. This is melting. Dry ice changes from a solid to a gas. This process is called:

**Desiccation   Condensation   Transpiration   Sublimation**

### **STOP 2 GEODE GALLERY (W03)**

Why are some geodes not round?

Why are nearly all of the large cathedral geodes from Brazil amethyst but geodes from other localities are usually only a small percent amethyst?

### **STOP 3 XQUISIT MINERALS (508)**

We know pyrite as fool's gold—so it is not gold. What exactly is pyrite?

### **STOP 4 UNIQUE ASIAN ART (501)**

What is mineralogy?

Why do people study fossils?

### **STOP 5 PROCTOR MUSEUM (FRONT HALLWAY)**



Find a dinosaur footprint model like this picture. What type of dinosaur made this footprint?

**Sauropod                      Theropod**

Which dinosaur could have made this track?

**Acrocanthosaurus      Apatosaurus**

### **STOP 6 ICE AGE EXHIBIT (FRONT HALLWAY)**

Name 2 animals that lived during the Ice Age?

What is the geological name for the Ice Age?

### **STOP 7 RELIABLE FOSSILS AND MINERALS (308)**

Sue, the largest T-Rex ever found is on display in what famous museum?

### **STOP 8 JP'S MINERALS (309)**

How old are dinosaur eggs?

What minerals are actually copper ores?

### **STOP 9 FOSSIL FANATICS (304)**

What is a fossil?

### **STOP 10 WRIGHT'S (301)**

What is unique about the mineral ulexite?

Calcite can have a very unusual optical property. What is that property?

Look at a line through a piece of calcite. How many lines do you see?

### **STOP 11 ART 'N' NATURE (FRONT HALLWAY)**

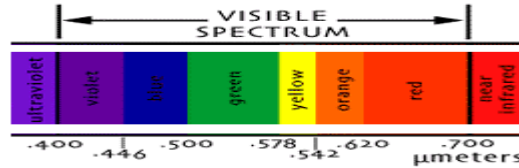
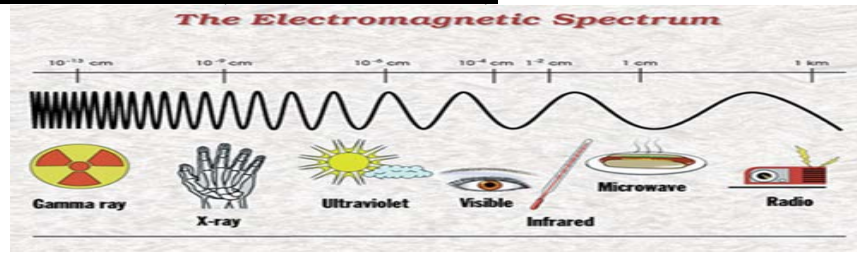
What determines the different colors in petrified wood?

### **STOP12 DREAMSTAR (FRONT HALLWAY)**

Are replicas the same as real fossils? Yes No Explain your answer.

What do scientists learn from artists?

**STOP 13 MINERAL SECTION (FRONT HALLWAY)**



Circle the color that has the highest energy level. **Red Green Violet**  
Can we see ultraviolet light? **Yes No** Why?

**STOP 14 LARSON'S ROCKS AND MINERALS (107)**

What color is azurite? What metal is in azurite?  
What is chatoyancy?  
Name 2 minerals that display this property?

**STOP 15 SAN JUAN GEMS (108)**

What is a coprolite?  
What causes the different colors in dinosaur bone?

**STOP 16 BANDERA INTERNATIONAL IMPORTS, INC (103)**

What is the Texas state rock?  
What is Texas state gemstone?

**STOP 17 DB OPALS (102)**

What is opal?

**STOP 18 LOVE OF LAND (W01)**

What is the state stone of Texas?

**STOP 19 HOUSTON GEOLOGICAL SOCIETY (EAST HALLWAY)**

Coal, oil and natural gas are called fossil fuels because they form from fossilized parts of plants and animals. Coal beds are layers of fossil plants that lived in a swamp. Oil is formed when microscopic animals die and their remains sink to the bottom of the ocean; this debris forms layers many feet deep, and then these layers are heated and squeezed to form oil. Fossil fuels must be removed from the ground before we can use them. Coal is mined. We must drill wells and pump oil from under the ground. Fossil fuels represent what type of energy?

(Circle the correct answer) **Renewable Nonrenewable Inexhaustible**

**STOP 20 YOUTH SECTION (ATRIUM)**

List 3 physical properties used to identify minerals.

**STOP 21 CASE EXHIBITS (EAST HALLWAY))**

Describe 2 cases located in the East Hallway.  
What case was your favorite? Why?

**STOP 22 PALEONTOLOGY SECTION (FRONT HALLWAY)**

Find a mammoth tooth. Did mammoths eat grass or meat? How do you know? How is a mammoth tooth like some of your teeth? How is it different?