

## GEOLOGY

PROJECT SUPERINTENDENT:	Holly Faust, 317-776-8412, holly.faust@hamiltoncounty.in.gov
EXHIBIT CHECK-IN:	Sunday, July 16, 4-6 PM
JUDGING:	Monday, July 17, 8:30 AM, Closed Judging
RELEASE:	Tuesday, July 25, 9-11 AM , and 5-7 PM
STATE FAIR ENTRIES:	Three (3) Exhibits/Poster, and one (1) Independent Study

### **Project Description:**

The 4-H Geology project helps youth learn about rocks, fossils, and minerals.

### **Levels:**

**Beginner (grades 3-5 suggested)**

**Intermediate (grades 6-8 suggested)**

**Advanced (grades 9-12 suggested)**

### **Exhibit Guidelines:**

All posters, notebooks, and display boards must include a reference list indicating where information was obtained, giving credit to the original author, to complete the 4-H member's exhibit. This reference list should/might include web site links, people and professionals interviewed, books, magazines, etc. It is recommended this reference list be attached to the back of a poster or display board, be the last page of a notebook, or included as part of the display visible to the public. A judge is not to discredit an exhibit for the way references are listed.

Posters are to be 22"x28" and displayed horizontally and placed in a clear plastic sleeve or covered with clear plastic to protect contents. Display boards should be designed to sit on a table using no more than 36" of tabletop space. Space should be left in the lower right hand corner to place an exhibit tag provided by Purdue Extension staff.

Specimens may also be displayed in a 24"x 18"x 3" collection box, displayed horizontally.

You may purchase your specimens and may display rocks, fossils, and minerals. If you purchase a specimen, indicate when and where you purchased it and the location where you would expect to find the specimen. If you collect a specimen, indicate the county and township where you found it.

Posters and display boxes will be exhibited "standing up" at the Indiana State Fair. Therefore, you need to mount your specimens securely. Subject matter experts suggest the following methods: soaking ½ cotton ball in Elmer's glue, hot glue, or clear tub sealant. Place the cotton ball in your box and put your rock (or fossil or mineral) on the cotton ball and let sit. It will take 1-2 weeks for Elmer's glue to fully harden. Specimens mounted with Elmer's glue can be removed by soaking the cotton ball in water. Glue remaining on the rock may be brushed off with an old, damp toothbrush.

When exhibiting rocks show a fresh surface (recently cracked or broken surface) to help judges identify the rock.

Labels - Include the specific geographical location where you would expect to find any specimens as well as where you actually acquired it (found, purchased, etc.).

Do not identify your specimens any further than phylum and class. There is one exception to this for fossils which are identified to phylum OR class. Class should only be used for fossils of mollusks, backboned animals, and arthropods.

#### **Exhibit Class Guidelines:**

Each year, members are required to complete a minimum of three (3) different manual activities.

##### **Beginner (grades 3-5 suggested)**

Create an educational poster, notebook or display about any manual activity or on any geology topic of choice that is age/grade appropriate.

##### **Intermediate (grades 6-8 suggested)**

Create an educational poster, notebook or display about any manual activity or on any geology topic of choice that is age/grade appropriate, or collection of 8-16 minerals and/or fossils.

##### **Advanced (grades 9-12 suggested)**

Create an educational poster, notebook or display about any manual activity or on any geology topic of choice that is age/grade appropriate, or collection of 15-25 minerals and/or fossils and/or jewel stones. Youth can also design and complete an independent study activity.