

## DIVISION 6028 – GEOLOGY

Kentucky Geological Survey provides consultation for this division.

Project entry must meet all the requirements for the class; otherwise, the entry may be disqualified. County agents should make sure that 4-H collections meet these requirements.

1. See general rules applying to all 4-H exhibitors and general rules applying to all exhibits other than livestock listed previously in this catalog.
2. Only one entry per 4-H member permitted in the Geology Division.
3. Only one entry per county per project year.
4. 4LO-11S0 Identification Card should be securely attached to the lower right-hand corner of the front of the box.
5. Participants may use wooden, cardboard, or plastic display boxes. While we strongly encourage boxes to meet the specifications below to ensure they fit properly in State Fair display cases, we understand that exact dimensions may not always be possible due to availability or accessibility. Boxes that do not meet these specifications will still be permitted, but may not fit the display cases.

### Preferred Dimensions:

- Vertical height: 14 to 17 inches
- Horizontal width: 16 to 24 inches
- Depth: No more than 4 inches

### Additional Recommendations:

- Boxes should have a removable acrylic cover (e.g., Plexiglass) for judging access.
  - Hinges and locks should be flush-mounted and placed on the sides or top to ensure the box sits level.
6. Ideally, each exhibit must be secured with a lock. Attach a key to the box with your name and county firmly attached to the key. Key will be returned to 4-H agent. Keep another key in case the state fair key is misplaced. (Note: if a cardboard or plastic box is used and the 4-Her is unable to attach a lock, the exhibitor enters the collection at their own risk – meaning the state fair and Kentucky 4-H Program are not responsible for stolen or lost items or specimens.)
  7. If fabric is used, use a fabric glue to adhere entire piece of fabric to box. Suggested fabrics are felt or velveteen.
  8. Rocks, minerals, and fossils should be firmly attached to the box. See Rule 12 for label information.
  9. Boxes will be displayed on their side, not flat. Therefore, larger specimens must be attached near the lower portion of the box.
  10. Rock, Mineral, and Fossil Identification Labels are available from the County Extension Agent for 4-H or the Kentucky Geological Survey (KGS) website (<http://www.uky.edu/KGS/education/4H.htm>). These are the only labels acceptable.
  11. Specimens that are polished may lose points.
  12. Exhibits may not be eligible for Class Champion if:
    - a. Box contains too few or too many specimens
    - b. Labels are not correctly filled out (see instructions and examples at the KGS website <http://www.uky.edu/KGS/education/4H.htm>).
    - c. Specimen is mounted jewelry
    - d. The specimen is not clearly numbered on the label (the judge is unable to determine which specimen goes with which label).
    - e. Specimens are not arranged in numerical order
    - f. Duplicate specimens are used to reach minimum number. However, varieties of the same rock or mineral are acceptable if the specimen is identified by a different name (such as quartz, smoky quartz, amethyst, agate, chert, flint or calcite, Iceland spar, aragonite, travertine). Also, it is acceptable if the duplicate specimen has an adjective

### Cooperative Extension Service

Agriculture and Natural Resources  
Family and Consumer Sciences  
4-H Youth Development  
Community and Economic Development

### MARTIN-GATTON COLLEGE OF AGRICULTURE, FOOD AND ENVIRONMENT

Educational programs of Kentucky Cooperative Extension serve all people regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, gender identity, gender expression, pregnancy, marital status, genetic information, age, veteran status, physical or mental disability or reprisal or retaliation for prior civil rights activity. Reasonable accommodation of disability may be available with prior notice. Program information may be made available in languages other than English. University of Kentucky, Kentucky State University, U.S. Department of Agriculture, and Kentucky Counties, Cooperating. Lexington, KY 40506



Disabilities  
accommodated  
with prior notification.

in front of the specimen (such as calcite, red calcite, or limestone, fossiliferous limestone, oolitic limestone). If each entry in that class has duplicate named specimens, then each entry may qualify for class champion, but will not be eligible for grand champion.

13. The following score card will be used to judge geology exhibits:
  - a. Correct identification and labeling - 5 points for each specimen (Collections will be judged more favorably that have different types of specimens, rather than many different varieties of the same rock, mineral, or fossil; such as gray limestone, light gray limestone, dark gray limestone, or red calcite, blue calcite, green calcite).
  - b. Cards/specimen: 1 point each that each specimen has the label completely filled out, along with specimen number.
  - c. Found on site: Since this is an exercise in becoming familiar with rocks, minerals, and fossils, an extra 1 point will be given for specimens that are found rather than purchased or given as gifts. (Be sure to ask permission if you have to enter private property. The Internet is a good place to search for rock clubs and geological surveys of your and other states for information on collecting localities.)
  - d. Neatness, arrangements, background - 20 points for total exhibit
14. Class champion will be selected in each class with a Grand Champion and Reserve Grand Champion selected from Class Champions.
15. 4-Hers entering fifth year and up cannot enter the same exhibit that has been judged in any previous State Fair.

**Classes:**

For each of the classes, specimens may consist of rocks, minerals, and or fossils. There is a separate label for rocks, minerals, and/or fossils (three different labels). Label and label instructions are available at the Kentucky Geological Survey website at <http://www.uky.edu/KGS/education/4H.htm>.

715: First year geology - consisting of 15 different specimens.

716: Second year Geology - consisting of 25 different specimens (up to 12 may be from previous project year; no more than 2 boxes)

717: Third Year Geology - consisting of 35 different specimens (up to 17 may be from previous project year; no more than 2 boxes)

718: Fourth Year Geology - consisting of 50 different specimens (up to 25 may be from previous project year; no more than 2 boxes)

719: Special collection for fifth year or more members - creative, advanced display of member's choosing which depicts a geological process, theme, story, or manufacturing process. Posters, notebooks and written narratives may be included.

Revised 9/2025

**Cooperative  
Extension Service**

Agriculture and Natural Resources  
Family and Consumer Sciences  
4-H Youth Development  
Community and Economic Development

**MARTIN-GATTON COLLEGE OF AGRICULTURE, FOOD AND ENVIRONMENT**

Educational programs of Kentucky Cooperative Extension serve all people regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, gender identity, gender expression, pregnancy, marital status, genetic information, age, veteran status, physical or mental disability or reprisal or retaliation for prior civil rights activity. Reasonable accommodation of disability may be available with prior notice. Program information may be made available in languages other than English.  
University of Kentucky, Kentucky State University, U.S. Department of Agriculture, and Kentucky Counties, Cooperating.  
Lexington, KY 40506



Disabilities  
accommodated  
with prior notification.