MINNESOTA 4-H PROJECT EVALUATION
PLANT AND SOIL SCIENCE

4-Her Name: _______________________________ Grade: ______
County or Club: ___________________________ Years in 4-H: ______ Years in Project: ______

- Purple
- Blue
- Red
- White
- Other

Comments:
- Strengths/accomplishments
- Skills learned
- Areas to work on
- Possible new challenges
- Questions to think about

<table>
<thead>
<tr>
<th>Learning Involved:</th>
<th>50% of Score</th>
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<tbody>
<tr>
<td>Understands the parts of a plant and plant processes, such as photosynthesis</td>
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<tr>
<td>Can explain elements necessary for plant growth (fertilizers, moisture, etc.)</td>
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<tr>
<td>Knows how to classify plants</td>
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<tr>
<td>Has an understanding of careers in horticulture</td>
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<tr>
<td>Can explain the exhibits and all processes involved in creating the exhibit</td>
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<tr>
<th>Workmanship &amp; Techniques of Project:</th>
<th>50% of Score</th>
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<tr>
<td>Shows evidence of experimenting and researching the topic</td>
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<tr>
<td>Information presented is accurate and correct, terms are correctly defined, components or other labels are correct, etc.</td>
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<td>Exhibit communicates, in a clear, concise way, the concept or skill learned</td>
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<td>Resources used in learning are identifiable (i.e. books, internet, self-directed learning, other helpful person, etc.)</td>
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<tr>
<th>General Appearance and Design:</th>
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<tr>
<td>The exhibit is constructed in an appropriate way (i.e. strong enough to support components that may be attached to the exhibit)</td>
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<tr>
<td>Exhibit is neat and attractive in appearance</td>
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### Rules
- All parts of the exhibit are labeled with the exhibitor's name and county.

### Guidelines
- The size of three-dimensional displays and posters should be consistent with the size recommendations by Minnesota 4-H.
- Exhibits are not limited to three-dimensional displays or posters. They may be actual models, games, experiments in progress or technology related to exhibits.
- Creativity is encouraged.

### Project Ideas
- Identify and label parts of a plant, seed, or stages in the growth cycle.
- Explain how cross-pollination works.
- Show different ways plants grow without soil.
- Describe how plants are used, other than for food.
- Examine soil, how it's created, and what kind of soil is in your area.
- Explore erosion and how wind and water can cause it to happen.
- Learn about soil testing and how to perform necessary tests.
- Study the plant classification system and how to identify plants.
- Other ideas related to plants and soils.

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**Resources Available:**

**Web site for Minnesota 4-H resources:**
- [www.mn4-H.umn.edu/projects](http://www.mn4-H.umn.edu/projects)
- [http://z.umn.edu/mn4hplantandsoilsciences](http://z.umn.edu/mn4hplantandsoilsciences)

**Web site for National 4-H resources:**
- [http://www.4-hdirectory.org/](http://www.4-hdirectory.org/) (Click Browse)
- [http://www.4-hmall.org/Curriculum.aspx](http://www.4-hmall.org/Curriculum.aspx)
  - 07162 Gardening: See Them Sprout
  - 07163 Gardening: Let's Get Growing
  - 07164 Gardening: Take Your Pick
  - 07165 Gardening: Growing Profits
  - 07166 Gardening - Helper's Guide
  - 07167 Gardening: Exhibit Guide
  - 07168 Gardening: Set of 6

**Other Resources:** Master Gardeners, Natural Resource Conservation Service in your county.