**Final Plant Project**

Choose a plant with a particular adaptation or use. You are working by yourself for this final project.

Please approve your choice with Mrs. Jackson before starting your project. Here are some suggestions:

**Corpse Flower Coffee Tulips Poison ivy or poison sumac or poison oak**

**Bladderwort Venus Fly Trap Nicotiana Burdock**

**Bamboo Pitcher Plant Sensitive Plant Giant Sequoia**

**Sugar Maple Sundew Skunk Cabbage Joshua tree**

**Molasses or sorghum Indian Pipe Hot Pepper Plant Tea**

**Yew tree Cacao Rubber tree \*\*\* or your favorite plant**

**Check off your requirements as you fulfill them:**

\_\_\_Use Smartnotebook or Powerpoint

\_\_\_Create at least **12 pages** as indicated below.

\_\_\_Each information page should have 2 pictures (minimum) or **24 total pictures**

\_\_\_Include at least **one video** (3 minutes or less and link it to a page.)

\_\_\_**15 vocabulary words** should be included.

\_\_\_Save to Mrs. J’s flash drive when you are finished.

Title Page-2 pictures

Introduction/Description of your plant

**\_\_\_2 (minimum) slides**

**\_\_\_4 pictures total on both slides**

**\_\_\_Pick 4 categories from the following:**

\_\_\_Include physical appearance of plant

\_\_\_Including scientific name

\_\_\_List all scientific classification information (Kingdom, Phylum, Class, Order, Family, Genus, Species)

\_\_\_Include type of plant (vascular, nonvascular, monocot or dicot etc)

\_\_\_Include any unranked classification information.

\_\_\_Other Introduction/Description category – get Mrs. J’s approval on topic

Plant Reproduction Section

**\_\_\_2 (minimum) Slides**

**\_\_\_4 pictures total on both slides**

**\_\_\_Pick 3 categories from the following:**

\_\_\_Summarize the life cycle of the plant, including reproduction

\_\_\_Describe sexual reproductive parts (for example, pollen, ovule, method of pollination, flower, stamen, pistol, etc.)

\_\_\_Describe seeds, seed dispersal methods, (or spore information)

\_\_\_Describe any asexual reproduction that occurs with the plant

\_\_\_Other Plant Reproduction category – get Mrs. J’s approval on topic

Plant Structure and Function

**\_\_\_2 (minimum) slides**

**\_\_\_4 pictures total on both slides**

**\_\_\_Pick 4 categories from the following:**

\_\_\_Describe the plant’s ground tissue

\_\_\_Describe the plant’s dermal tissue

\_\_\_Describe the plant’s vascular tissue

\_\_\_Describe your plant’s root system and identify the type of roots

\_\_\_Describe the plant’s stems and leaves structure

\_\_\_Describe the movement of water and nutrients in the plant.

\_\_\_Other Structure/Function category – get Mrs. J’s approval on topic

Plant Growth and Development

**\_\_\_2 (minimum) slides**

**\_\_\_4 pictures total on both slides**

**\_\_\_Pick 3 categories from the following:**

\_\_\_Describe germination

\_\_\_Describe growth of your plant

\_\_\_Include information about primary and/or secondary growth

\_\_\_Indicate if your plant is an annual, biennial, or perennial

and include the average (usual) lifespan of the plant

\_\_\_Other Plant/Development category – get Mrs. J’s approval on topic

Environmental Factors

**\_\_\_2 (minimum) Slides**

**\_\_\_4 pictures total on both slides**

**\_\_\_Pick 3 categories from the following:**

\_\_\_Describe the habitat/climate/range of the plant

\_\_\_Describe one plant hormone that controls plant growth in the plant

\_\_\_Describe tropisms that occur in the plant

\_\_\_Describe seasonal changes/photoperiodism that affects flowering or the life cycle of the plant

\_\_\_Other Environmental Factors category—get Mrs. J’s approval on topic

Plant Importance/Use/Adaptation

**\_\_\_1 (minimum) Slide**

**\_\_\_2-3 pictures total**

**\_\_\_Pick 2 categories from the following:**

\_\_\_Identify the economic importance

\_\_\_Identify the medical, edible, and/or functional use

\_\_\_Identify significant adaptations for plant survival

\_\_\_Other Plant Importance/Use/Adaptation category—get Mrs. J’s approval on topic

Sources

\_\_\_\_**1 slide:** All source are properly cited on last page

**\_\_\_Presentation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CATEGORY | **4** | **3** | **2** | **1** |
| **Presentation** | Well-rehearsed with smooth delivery that holds audience attention. | Rehearsed with fairly smooth delivery that holds audience attention most of the time. | Delivery not smooth, but able to maintain interest of the audience most of the time. | Delivery not smooth and audience attention often lost. |
| **Attractiveness** | Makes excellent use of font, color, graphics, effects, etc. to enhance the presentation. | Makes good use of font, color, graphics, effects, etc. to enhance to presentation. | Makes use of font, color, graphics, effects, etc. but occasionally these detract from the presentation content. | Use of font, color, graphics, effects etc. but these often distract from the presentation content. |
| **Content** | Covers topic in-depth with details and examples. Subject knowledge is excellent. | Includes essential knowledge about the topic. Subject knowledge appears to be good. | Includes essential information about the topic but there are 1-2 factual errors. | Content is minimal OR there are several factual errors. |
| **Mechanics** | No misspellings or grammatical errors. | Three or fewer misspellings and/or mechanical errors. | Four misspellings and/or grammatical errors. | More than 4 errors in spelling or grammar. |

**Vocabulary:** Circle the 15 vocabulary words that you used in your presentation.

|  |  |  |  |
| --- | --- | --- | --- |
| Ch 23 | Ch 24 | Ch 25 | Ch 26 |
| stoma  guard cell  Vascular system  Nonvascular plant  Embryo  Seed plant  Phloem  xylem  Shoot  Root  Meristem  Rhizoid  Rhizome  Frond  Cone  Gymnosperm  Angiosperm  Fruit  Endosperm  Monocot  Dicot  Vegetative part | Pollen grain  Ovule  Pollination  Pollen tube  Seed coat  Cotyledon  Sepal  Petal  Stamen  Anther  Pistil  Ovary  Fertilization  Vegetative reproduction  Plant propagation  Tissue culture | Dermal tissue  Ground tissue  Epidermis  Cork  Vessel  Sieve cylinder  Cortex  Root hair  Root cap  Herbaceous plant  Vascular bundle  Pith  Heartwood  Sapwood  Petiole  Mesophyll  Transpiration  Source  Sink  Translocation | Germination  Perennial  Annual  Biennial  Primary growth  Secondary growth  Apical meristem  Cork cambium  Vascular cambium  Annual ring  Mineral nutrient  Auxin  Hormone  Apical dominance  Tropism  Photoperiodism  Dormancy |