**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 |
| stomaguard cellVascular systemNonvascular plantEmbryoSeed plantPhloemxylemShootRootMeristemRhizoidRhizome FrondConeGymnospermAngiospermFruitEndospermMonocotDicotVegetative part | Pollen grainOvulePollinationPollen tubeSeed coatCotyledonSepalPetalStamenAntherPistilOvaryFertilizationVegetative reproductionPlant propagationTissue culture | Dermal tissueGround tissueEpidermisCorkVesselSieve cylinderCortexRoot hairRoot capHerbaceous plantVascular bundlePithHeartwoodSapwoodPetioleMesophyllTranspirationSource SinkTranslocation | GerminationPerennialAnnualBiennialPrimary growthSecondary growthApical meristemCork cambiumVascular cambiumAnnual ringMineral nutrientAuxinHormoneApical dominanceTropismPhotoperiodismDormancy |