Ecosystem Services- Biodiversity Bouquet- Damascus HS

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_

**Instructions**:

* Identify the value to the different parts of Damascus High School’s outdoor property in terms of ecosystem services.
* Collect samples of plant species along the way to make a biodiversity bouquet.

**Ecosystem Service Categories:**

**Cultural**: Inspiration, Recreation, Cultural Heritage, Tranquility

**Provisioning**: Water supply, Food Production, Timber, Energy, Genetic Diversity

**Regulation**: Helps with air quality, prevents erosion, Carbon storage (trees), Improves soil quality, regulates water flow, helps to pollinate (insects), prevents disease

**Supporting**: Biodiversity (different types of plants allow for different types of animals and other organisms), Water cycling, Carbon cycle (Plants take in carbon dioxide and release oxygen), Soil Formation (fungus/bacteria/worms help to break down dead organisms and form soil)

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| **Part of Damascus** | **Ecosystem Service** | **Reasoning** |
| Example:  Grass surrounding the parking lot | Regulation/Supporting | Collects water from rain, decreases runoff/ erosion, food/habitat for insects and other organisms |
| Shrubs/Trees surrounding building |  |  |
| Part of Damascus | Ecosystem Service | Reasoning |
| Grass on Stadium field/softball field/baseball field |  |  |
| Trees surrounding the baseball/softball field |  |  |
| Plants at the end of the  Water drainage |  |  |
| Insects that feed on the plants around DHS |  |  |
| Birds on the DHS campus |  |  |
| Other…\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |