**Butterfly/Native Species Design Challenge**

**Enrichment Objective**:

 Your team of architects (3 or 4) will come up with a plan to create a butterfly/native species garden. You will be competing against each other for the school’s business. The team that produces the best ideas, designs and research will win the school’s account.

**Timeline:**

3 weeks. This is the amount of time that you will have to create a proposal, design your plan and carry out the plantings. During this time you will be researching, surveying, conducting soil tests, developing budgets, advertising and propaganda posters.

**Organization:**

Your team will have a designated folder in which you will keep all of your research, designs, brochures, data and anything else you accumulate. Your team members have designated roles within your group to make sure that the plans get finished. Your folder is where you will accumulate the things that you will eventually submit for your design proposal.

**What You Will Create:**

* **Brochure (30 points)–** You will create a brochure for your company. The brochure will serve as an advertisement and promote your company’s ability to get the job done. It should include:
	+ company name & company motto/slogan
	+ members of the company and their roles and contact information
	+ monarch butterflies and the importance of pollinators
	+ Why and how we should preserve or create new habitats for them
	+ services you offer:
		- soil testing
		- surveying (accurate and elaborate designs)
		- budget plans
		- school promotions and advertising (student-directed, educational posters, etc.)
		- garden designs – native species, rain gardens, shade gardens, wildlife habitat gardens, etc.
* **Survey of the Area/Garden Design(30 points) –** detailed sketch of the area including measurements & placement of native plant species
* **Proposal –(30 points)** letter to Mr. Woods and Mr. Abrams outlining your designs, why we should provide a habitat for pollinators and how that process will be carried out
* **Soil Test Analysis (20 points)**
* **Budget Plan/Proposal (20 points):** Itemized list of items that we will need based on research
* **Advertisement/Promotional Designs (30 points) –**promoting education about the importance of monarch butterflies and other pollinating insects, their life cycle, their habitats, etc.