**Geometry Unit 4: Congruent Triangles Project**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Congruent Triangle Logo**

**Introduction:**

**Many designs and logos today contain congruent triangles.**

**“Triangles suggest action. They are dynamic. Triangles may convey either conflict or strength. Triangles can direct movement (up, down, left, right — depending on which way they 'point') but rather than moving themselves, they point the way for the reader.**

**Triangles are suggestive of many different shapes and ideas. They can represent a religious Trinity, a pyramid, a flag or pennant, an arrow, a beacon.”**

**— About.com**

**The Project**

**Corporate Logos**

* **In the computer lab, or using magazines, research triangular logos. Choose three of the categories below and find one logo in each of the areas that contains a triangle in the design. Copy each logo (by computer or by hand) to include in your paper and explain why you think the triangle was chosen to be a part of the logo. Then, construct a congruent triangle using the constructions learned during this section.**

|  |  |  |
| --- | --- | --- |
| * 1. **Fast Food**   2. **Software**   3. **Sports** | * 1. **Video Games**   2. **Superheroes**   3. **Cars** | * 1. **TV Networks**   2. **Other corporation or company not listed above** |

* **Find one company design or logo from any of the categories that contains at least one pair of congruent triangles. Copy it and include it in your paper. On the same page, explain why you think the congruent triangles were chosen to be a part of the design or logo and how you can tell they are congruent (ASA, SSS, SAS, etc.).**

**Create Your Own Logo**

* **Use the information you gathered to help you create your own logo containing at least one pair of congruent triangles (use geometric constructions to make sure they are congruent).**
* **On another page:**
  1. **Explain why you chose to use the congruent triangles as you did.**
  2. **Explain how you think the use of congruent triangles contributes to the beauty of your logo.**

**General**

* **All text, except the self-assessment on the rubric, must be typed.**
* **We will spend one day in the computer lab and one class day to do your logo design and finish the project. If you need extra time, it must be done on your own time.**

**What needs to be turned in:**

**The Congruent Triangle Logo project will be comprised of:**

* **The rubric, filled out with the required information.**
* **Three corporate logos with at least one triangle along with the detailed paragraph outlined above.**
* **One corporate logo with at least one set of congruent triangles with the detailed paragraph outlined above.**
* **Your own logo – hand drawn or computer art, created by you. The logo should contain at least one set of congruent triangles along with the detailed paragraph outlined above.**

**Congruent Triangle Project Rubric**

**Performance Task Assessment List**

|  |  |  |  |
| --- | --- | --- | --- |
| Element | **Possible Points** | **Earned Assessment** | |
| **Self** | **Teacher** |
| **Completeness**  **The project contains all of the required parts:**  **Rubric, four corporate logos (one with congruent triangles) and their explanations, your logo and its explanation** | **10** |  |  |
| **Technical Accuracy The project follows the directions given correctly. All logos are copied, the explanation on the same page, etc.** | **10** |  |  |
| **Mathematical Accuracy Your researched triangle logos have triangles. Your researched congruent triangle logo and your own logo have congruent triangles.** | **10** |  |  |
| **Neat and Presentable The project is very neat and presentable.** | **10** |  |  |
| **Drawings and Illustrations Any illustrations, photographs, and drawings add to the purpose and interest of the project.** | **5** |  |  |
| **Creativity The project is highly original and creative.** | **5** |  |  |
| Did I do my best work? | **Y/N** |  |  |
| Total: | **50** |  |  |