

## Triangles

### PS HELO Assignment #9 – Triangles part two

*Complete the following and submit via Edmodo. Include subheadings.*

**Implementing a strategy:** Describe in a few sentences your group's planning and procedure for building a chair strong enough to support one of your group members and made entirely of newspapers and masking tape. Photograph your finished product from at least two angles.

**Monitoring progress and revising strategy:**

- 1) Describe the testing you carried out on your chair while you built it, any changes or additions you made to it in order to improve it, and why you thought these would help.
- 2) Explain how you used triangles in your design to make your chair stronger.
- 3) How did your chair making process and product compare to those of other groups?

**Evaluation of the solution:** Was your solution to the problem successful? How do you know? Explain the criteria you used to judge the success of your solution, as well as what you might do to improve it even more.

**Reflection:** Answer the following questions, then summarize what you learned by doing this ELO project.

**Questions:**

- 1) What are tension and compression, and how do they affect an object that holds weight, such as a chair or a bridge?
- 2) What makes the triangle such a strong shape to use in construction? Diagram encouraged.
- 3) What kinds of objects use triangles to make them stronger?
- 4) Identify one example of triangles being used in construction that you hadn't thought about before.
- 5) What did you learn by doing this project?