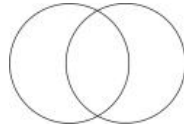


Engineering Design – Introductory Exercise

Venn Diagram



This task/activity would be used in the first days of class to introduce students to the unit or entire course. The use of this teaching tool will serve to actively engage students.

Overview

To actively involve students in the process, have them cut out pictures from magazines, internet resources or other media that represent the two sides of the diagram and the common aspects of both. Once they have completed this process the entire class would create a Venn Diagram together that could be used as a bulletin board or other display.

Process

1. Split the class into two large groups and have them gather pictures that represent either technology or engineering.
ie. Group 1 = Technology Education Group 2 = Engineering
2. Create the large circles for the Venn Diagram on a white board or bulletin board.
3. Call on students one at a time alternating groups. Have them put their picture in one circle or the other. Use this opportunity to discuss whether the item they posted could fit in the center as a common aspect.
4. Continue the process until all pictures or items are posted in the Venn Diagram. Once again, look at any items or pictures that could be moved to the common space in the center.
5. Provide an opportunity for discussion and feedback.
6. Discuss the outcomes of the course, expectations and how the information could prepare them for any number of different career areas or other interests. (Why is problem solving important?)

Materials:

- Clip Art Books
- Markers
- Paper

Resources:

- Tech Direction
- Magazines of student interest (Car and Driver, Mechanics Illustrated, etc.)
- Internet (Google images)
- Tech Ed supply catalogs (Pitsco, Kelvin, etc.)

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This material is based upon work supported by the National Science Foundation under Grant No. 0402616. Any opinions, findings and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the view of the National Science Foundation (NSF).

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