

Advanced Challenge Level 1 Problem #55

The Polyhedron Challenge: The Study of Regular Polyhedrons

In this challenge you are asked to investigate polyhedrons, with a particular emphasis on regular polyhedrons. For this challenge you must do the following tasks.

1. Investigate polyhedrons. Make a poster which clearly illustrates what a polyhedron is. Include on your poster an explanation of what a regular polyhedron is.
2. Make a physical model of each of the five different regular polyhedrons.
3. Design a display for your models. Your display must include the title "The Five Regular Polyhedrons" as well as the specific name of each one.

The Study of Regular Polyhedrons - Assessment

The assessment for this challenge will be done using the following standards.

Product Standards:

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| 1. The poster was well designed for its intended purpose. It was informative, artistic, and large enough to be read from a distance of 10 feet. | 0 | 1 | 2 | 3 | 4 | 5 |
| 2. The physical models were accurately made and demonstrated a good understanding of the topic being investigated. | 0 | 1 | 2 | 3 | 4 | 5 |
| 3. Each of the physical models was between 10 and 30 centimeters tall. | 0 | 1 | 2 | 3 | 4 | 5 |
| 4. The display was accurate, informative and pleasant to look at. | 0 | 1 | 2 | 3 | 4 | 5 |
| 5. The physical models were correctly labeled. | 0 | 1 | 2 | 3 | 4 | 5 |