

Product Design: Jewelry Design

Design Brief: The **BHS 3-D Design Company** has been hired by **Keyes Jewelry, Inc** to design and model a **unique piece of jewelry**. The jewelry will be sold to worldwide markets. Here are the parameters for the Jewelry Design:

- The Jewelry must fit into a jewelry box that is **8 cm** high by **8 cm** long by **7 cm** deep. There must be a one centimeter of base packaging in the jewelry box. The Jewelry box **does not** need to be designed.
- The jewelry must be safe to handle, without any unusual precautions.
- The jewelry must have **at least three distinctly different parts**.
- The jewelry must use **precious metals** (gold, silver or platinum), and **precious or semi-precious** stones.
- The jewelry must be **engraved**.

Stakeholders: **Keyes Jewelry, Inc** (profits), people who buy the jewelry, anyone who use the jewelry, U. S. Product Safety Commission are all stakeholders.

Name _____ Class Period _____

Product Design: Jewelry Design

Research and Investigation: Investigate jewelry designs on the Internet. Sketch 4 design ideas that you *find* (15 minutes ONLY).

1	2
3	4

Name _____ Class Period _____

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Initial Design Procedures: Use the next two pages to work through sketch ideas for your jewelry. Your sketches should be in *Isometric* , Front, Side and Top views, and labeled as such.

Name _____ Class Period _____

Product Design: Jewelry Design

Sketches:

Name _____ Class Period _____

Product Design: Jewelry Design

Daily Design Log: Explain the challenges and successes that you encountered during each day of design. Use complete sentences and give as much detail as possible

Date	Log Entry

Jewelry Design Rubric

Task	Points	Earned
Research Sketches	5	
Initial Sketches <i>Isometric, Front, Side and Top</i>	15	
Creativity of Design	10	
Mock up done in Inventor – <i>at least three parts</i>	20	
Drawings – <i>Cover, Explosion,</i> <i>each part in 4 views</i>	20	
Assembly	10	
Animation Video	10	
Image Rendering	5	
Engraving	5	
Project Logs	15	
Total	115	