Student Name: ­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 4: Design**

**Lesson 1: Design Principles**

File 4.1.1: Sunglasses for the Elderly

You will apply aesthetic and engineering design principles to redesign a pair of sunglasses for an elderly clientele. You will present your design, including a description of the aesthetic and engineering design considerations and universal design principles.

Earlier in this lesson, you learned the importance of surveying potential customers to find out what is important to them as it relates to a particular product. List the characteristics that are important to elderly customers when they are purchasing sunglasses.

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Sketch your design on a separate sheet of paper and attach it to this sheet.

List the aesthetic and engineering design considerations and universal design principles you incorporated into your design.

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The following rubric will be used to evaluate your work:

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| **Category** | **Below Average** | **Average** | **Excellent** |
| Customer survey | Student provides little evidence of conducting a survey and only lists 1-2 desired characteristics for sunglasses. | Student provides evidence of conducting a survey by listing desired characteristics for sunglasses. | Student provides evidence of conducting a survey by attaching all the returned surveys and by listing a summary of desired characteristics for sunglasses. |
| Design sketch | Student attaches a sketch that is difficult to understand and does not indicate any characteristics of the design. | Student attaches a sketch that displays the major characteristics of the design. | Student attaches a sketch that displays and labels all characteristics of the design. |
| Design characteristics | Student list 1-2 design characteristics. | Student list the major design characteristics. | Student list all design characteristics with rationale for their inclusion. |