



Academic Activity

Chapter 4

Drawings

Visual representations of an object are often the easiest way to capture an idea or convey it to someone else. Engineers use drawings as a tool for designing, refining, and conveying their ideas. You have been asked to create a new pair of sunglasses that incorporates a Bluetooth receiver for use while driving.

1. Sketches are often preliminary drawings. Create a sketch of your sunglasses.

A large rectangular grid consisting of 20 columns and 15 rows, intended for sketching a pair of sunglasses.

2. Working drawings are used to show the actual shape, scale, and geometry of an object. Create a working drawing of your sunglasses.

A large rectangular grid consisting of 20 columns and 15 rows, intended for creating a detailed working drawing of a pair of sunglasses.



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3. Orthographic projections are used to show more than one perspective of an object. Create an orthographic projection of your sunglasses.

A large rectangular grid consisting of 20 columns and 30 rows of small squares, intended for drawing an orthographic projection of sunglasses.