

Lesson 1 Introduction to Design Key Terms

The following table provides definitions for terms introduced in Lesson 1, along with the numbers of the APB resources in which the term is used.

Term	Definition
accuracy	The extent to which a given measurement agrees with the standard value for that measurement.
annotation	A note of explanation, a dimension, or a comment added to text, diagrams, or models.
cerebral palsy (CP)	A condition that affects body movement and coordination. It is caused by brain injury or brain malformation that occurs before, during, or immediately after birth when an infant's brain is still developing.
collaboration	Working together on a common purpose.
constraint	A limit or restriction to a design process. Constraints may be such things as appearance, funding, space, materials, and human capabilities.
criteria	Rules or requirements that a design must follow.
decision matrix	A tool for systematically ranking options using a set of criteria.
design process	A systematic problem-solving strategy that designers follow to come up with a solution to a problem.
dial caliper	A precision measuring device used to measure linear dimensions, thickness, or diameter.
dimension	Measurement in length, width, and depth.
documentation	A drawing, photo, video, or text artifact that contains information about a process or instructions for assembling, installing, operating, and servicing.
isometric sketch	A sketch in which an object's parallel edges are drawn with parallel lines, typically at 30-degree angles to the horizontal baseline. There are no vanishing points and three sides of the object can be seen simultaneously.

mechanical dissection	Observing the operation of a device and describing its function and design specifications.
modification	A change or improvement designed to produce optimal accuracy and function.
multiview sketch	A sketch typically including three primary views of an object that are drawn using orthographic projections. The top, front, and right primary views of the object are projected onto a drawing plane perpendicular to each view. An isometric sketch of the object is often included.
observation	A remark, statement, or comment based on something one has seen, heard, or noticed.
occupational therapy	A treatment that focuses on helping people with a physical, sensory, or cognitive disability to improve function and be as independent as possible in all areas of their lives.
optimal	Describes a design, process, or system that is as effective or functional as possible within the given criteria and constraints.
orthographic projection	A method of representing views of a three-dimensional object by projecting the visible faces in each view on a two-dimensional plane.
perspective sketch	A type of pictorial drawing in which vanishing points are used to provide the depth and distortion that is seen with the human eye.
precision	The degree to which the correctness of a quantity is expressed.
prototype	A working model used to test a design concept by making observations and necessary adjustments.
solution	The answer to a problem or opportunity.
surface area	The total area of the surface of a three-dimensional object.
team norms	Guidelines that are developed by a team regarding how they are to interact, communicate, and conduct themselves as part of the team.
thumbnail sketch	A preliminary visual of a possible idea for a design. Most thumbnail sketches are not full size and have little detail. Their purpose is to help quickly explore possible alternative designs.
unit	A specified amount of something measured. Units allow us to use standard measurements.
volume	The amount of space, measured in cubic units, that an object or substance fills.