

Keywords: Ks3 CAD

Topic Title: Ks3 CAD

Introduction to the topic: This is a brand new skill for most students, using computer aided design to make 3d models.

What lessons will you cover during the topic? Purpose of CAD, making parts and assemblies, solving problems.

Keyword	Definition
Assembly	A collection of instances of parts, sketches, surfaces, or subassemblies that
	defines both position and movement.
Chamfer	A Feature tool that enables you to break sharp edges with a bevel. Create
	bevelled edges on selected edges or faces.
Composite part	A part comprised of selected bodies (parts, surfaces, curves, and/or points)
	grouped together to act as one part. You can create a closed composite
	part (one which consumes the bodies involved) or an open composite part
	(one that does not consume the bodies involved).
Entity	An Onshape system object or an item built in Onshape: mates, mate
	connectors, sketch curves, parts, edges, and faces are all examples of
	entities.
Extrude	A Feature tool that extends a sketch in the direction normal to the sketch
	plane. If the sketch is closed, the object will become a 3D solid. If the object
	is not closed, it will become a 3D surface. Create, add to, subtract from, or
	intersect parts by extruding sketch regions or planar faces, or surfaces by
	extruding lines or curves.
Face	A model object; a portion of a part, surface, or closed sketch region having
	area and bounded by edges. For example, a rectangular part has six faces.
Instance	A part, sketch, surface, or subassembly used in an Assembly.
Mate	An Onshape feature used to position instances in an assembly and define
	how they move.
Part list	The list of parts created in the current Part Studio. They are listed in the
	bottom portion of the Feature list.
Revolve	Create, add to, subtract from, or intersect parts by revolving sketch regions
	or planar faces about a central axis, or surfaces by revolving lines and
	curves about a central axis.