
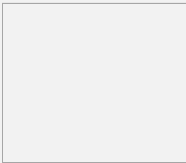
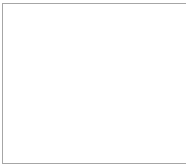
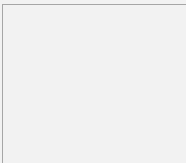
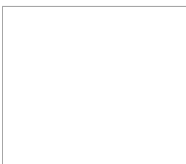
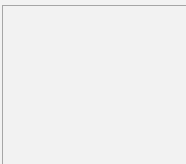


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## Glossary of Terms


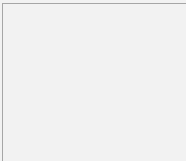
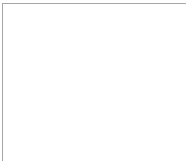
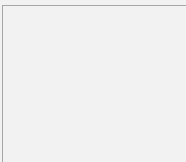
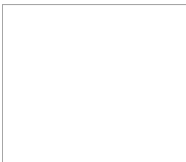
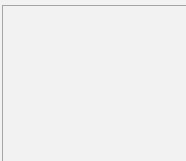
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ID/Type/OLE	Word/Definition/Link
215	3D Design/Print
	
	3D Scanner
	n. A device used to scan a 3-dimensional object and reproduce it as a 3D design file. It normally uses a combination of pictures and laser measurements.
	<a href="https://en.wikipedia.org/wiki/3D_scanner">https://en.wikipedia.org/wiki/3D_scanner</a>
180	3D Design/Print
	
	ABS
	n. Acrylonitrile Butadiene Styrene, a thermoplastic used as a 3D printer material. ABS is soluble in acetone. Acetone can be used to smooth the surface of a printed part.
	<a href="https://en.wikipedia.org/wiki/Acrylonitrile_butadiene_styrene">https://en.wikipedia.org/wiki/Acrylonitrile_butadiene_styrene</a>
204	3D Design/Print
	
	Additive Manufacturing
	n. Also called "3D Printing." A process whereby three dimensional objects are made in successive layers, usually under computer control.
	<a href="https://en.wikipedia.org/wiki/3D_printing">https://en.wikipedia.org/wiki/3D_printing</a>
182	3D Design/Print
	
	Amniotic Band Syndrome
	n. Amniotic Band Syndrome occurs when the fetus becomes entangled in fibrous, string-like amniotic bands in the womb which restricts blood flow to the appendage that is affected.
	<a href="https://en.wikipedia.org/wiki/Amniotic_band_constriction">https://en.wikipedia.org/wiki/Amniotic_band_constriction</a>
183	3D Design/Print
	
	Biopolymer
	n. A polymer produced by living organisms.
	<a href="https://en.wikipedia.org/wiki/Biopolymer">https://en.wikipedia.org/wiki/Biopolymer</a>
184	3D Design/Print
	
	CAD/CAM
	n. Computer aided design and computer aided manufacturing.
	<a href="https://en.wikipedia.org/wiki/Computer-aided_technologies">https://en.wikipedia.org/wiki/Computer-aided_technologies</a>

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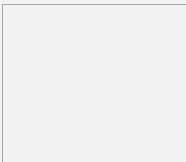
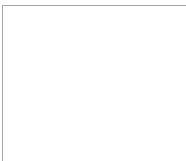
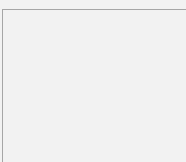
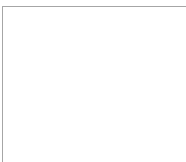
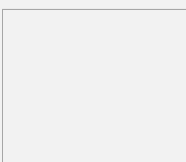
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ID/Type/OLE	Word/Definition/Link
211	3D Design/Print
	Chamfer
	n. In 3D Design, a transitional edge at the junction where two planes meet.
	<a href="https://en.wikipedia.org/wiki/Chamfer">https://en.wikipedia.org/wiki/Chamfer</a>
185	3D Design/Print
	Enabling the Future Community
	n. A worldwide community dedicated to utilizing 3D printers to create 3D printed hands and arms for those in need of an upper limb assistive device.
	<a href="http://enablingthefuture.org/">http://enablingthefuture.org/</a>
186	3D Design/Print
	Extrusion
	n. A process by which material is pushed through a die of a desired cross-sectional profile. Such a "die" is referred to as an "extruder."
	<a href="https://en.wikipedia.org/wiki/Extrusion">https://en.wikipedia.org/wiki/Extrusion</a>
189	3D Design/Print
	Filament
	n. In 3D Design and Printing, the extruded material that is stored on a spool and is pushed through a heated die.
210	3D Design/Print
	Fillet
	n. A 3-D Design process of filling in a junction where two planes meet with material that is curved.
	<a href="https://en.wikipedia.org/wiki/Fillet_(mechanics)">https://en.wikipedia.org/wiki/Fillet_(mechanics)</a>
187	3D Design/Print
	Fused Deposition Modeling (FDM)
	n. An additive manufacturing technology commonly used for modeling, prototyping and production applications.
	<a href="https://en.wikipedia.org/wiki/Fused_deposition_modeling">https://en.wikipedia.org/wiki/Fused_deposition_modeling</a>

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## Glossary of Terms


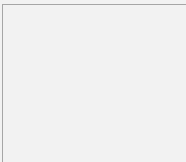
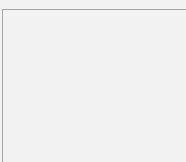
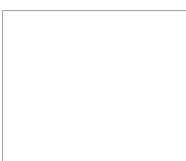
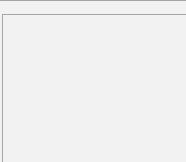
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ID/Type/OLE	Word/Definition/Link
188	3D Design/Print
	
	Fused Filament Fabrication (FFF)
	n. An additive manufacturing process whereby a continuous filament of material is fed through a moving, heated extruder head and is deposited onto a growing workpiece.
	<a href="https://en.wikipedia.org/wiki/Fused_filament_fabrication">https://en.wikipedia.org/wiki/Fused_filament_fabrication</a>
190	3D Design/Print
	
	G-code
	n. A language used to direct machine tools on how to make something.
	<a href="https://en.wikipedia.org/wiki/G-code">https://en.wikipedia.org/wiki/G-code</a>
191	3D Design/Print
	
	Hand-o-matic
	n. A computer program available at <a href="http://www.enablingthefuture.org">www.enablingthefuture.org</a> that uses measurements provided by users, to re-size models for parts comprising prosthetic hands and arms and to download them to the user.
192	3D Design/Print
	
	Heated Bed
	n. That part of a 3D, fuse deposition modeling (FDM) printer onto which the filament is extruded. When heated filament cools, it can cool in an irregular way causing warping to occur. A heated printer bed can reduce unwanted warping.
193	3D Design/Print
	
	Hot End
	n. The heated extruder of a 3D, fuse deposition modeling (FDM) printer.
194	3D Design/Print
	
	Kapton Tape
	n. A polyimide film developed by DuPont Corporation in the 1960's. It is used in 3D printing to adhere ABS parts to printer beds. Also used to secure a heating element to an extruder barrel.
	<a href="https://en.wikipedia.org/wiki/Kapton">https://en.wikipedia.org/wiki/Kapton</a>

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## Glossary of Terms



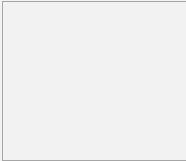
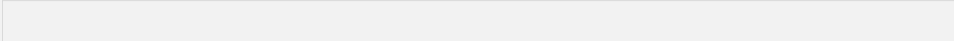
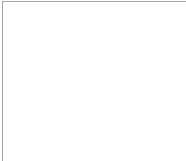
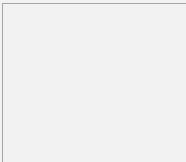
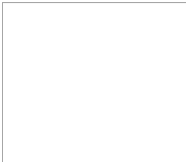
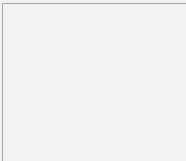
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ID/Type/OLE	Word/Definition/Link
209	3D Design/Print
	
	Loft
	v. A 3D Design process where a line is moved along a transverse line to create a 2-dimensional surface.
	<a href="#">IDWordDefinitionLinkOLE ObjectType</a>
212	3D Design/Print
	
	Mirror
	v. A 3D Design technique where the designer copies the attributes of a design to the opposite side across from a line (in a 2-dimensional design) of a plane (in a 3-dimensional design).
195	3D Design/Print
	
	NEMA
	n. A standard to describing the specification of a stepper motor utilized by the National Electric Manufacturers Association (NEMA).
	<a href="https://en.wikipedia.org/wiki/National_Electrical_Manufacturers_Association">https://en.wikipedia.org/wiki/National_Electrical_Manufacturers_Association</a>
213	3D Design/Print
	
	Offset
	v. A design technique where one adds an offsetting parallel line or curve a specified distance away from a line, curve or spline.
196	3D Design/Print
	
	PLA (Polylactic Acid)
	n. Refers to a type of 3D printing filaments made of polylactic acid.
	<a href="https://en.wikipedia.org/wiki/Polylactic_acid">https://en.wikipedia.org/wiki/Polylactic_acid</a>
197	3D Design/Print
	
	Raft
	n. In 3D printing, a technique used to prevent warping. With a raft, parts are built on a bed of disposable material that is exposed to a larger are of the printer bed than the part itself. The larger area of exposure promotes adhesion to the printer bed.

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## Glossary of Terms


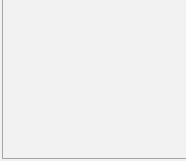
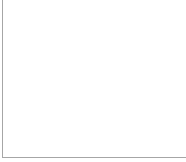
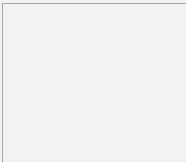
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ID/Type/OLE	Word/Definition/Link
207	3D Design/Print
	
	Revolve
	v. A 3D Design procedure where one rotates a 2-dimensional sketch around an axis and, thereby, create a 3-dimensional design.
	
200	3D Design/Print
	
	Slicer
	n. A computer program that translates a design in ".stl" format into machine code (g-code) for each layer for a part being produced on a 3D printer.
	
214	3D Design/Print
	
	Spline
	n. A 3D Design technique where one creates a curve from a free-hand drawing.
	<a href="https://en.wikipedia.org/wiki/Smoothing_spline">https://en.wikipedia.org/wiki/Smoothing_spline</a>
201	3D Design/Print
	
	Stepper Motor
	n. A brushless DC motor that divides a full rotation into a number of equal rotational steps.
	<a href="https://en.wikipedia.org/wiki/Stepper_motor">https://en.wikipedia.org/wiki/Stepper_motor</a>
199	3D Design/Print
	
	Stereolithography Apparatus (SLA)
	n. A form of 3D printing technology whereby layers of parts are "grown" layer by layer. Each layer, usually composed of light-sensitive resin, is cured by light (photopolymerization) which causes the polymer chains to link.
	<a href="https://en.wikipedia.org/wiki/Stereolithography">https://en.wikipedia.org/wiki/Stereolithography</a>
202	3D Design/Print
	
	STL
	n. Refers to "Stereo Lithography," and also stands for "Standard Triangle Language" or "Standard Tessilation Language." In 3D design and Printing, a file format which describes the surface geometry of 3D object.
	<a href="https://en.wikipedia.org/wiki/STL_(file_format)">https://en.wikipedia.org/wiki/STL_(file_format)</a>

# STEAM Tech Teams

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ID/Type/OLE		Word/Definition/Link
205	3D Design/Print	Subtractive Manufacturing
		n. Also referred to as "machining." A process whereby a larger piece of material is cut into a desired shape, normally from the outside inwards.
		<a href="https://en.wikipedia.org/wiki/Machining">https://en.wikipedia.org/wiki/Machining</a>
203	3D Design/Print	Support Material
		n. Disposable printing material which provides support for "overhangs" or "arches" so they will retain their intended shape until the extruded material cools. The support material is removed during "post processing" of the part.
208	3D Design/Print	Sweep
		v. A 3D design process where one moves a 2-dimensional sketch from the beginning to the end of a line or spline, thereby creating a 3-dimension design.
181	3D Design/Print	Thermoplastic
		n. A plastic that softens with the application of heat. Plastic is material that is composed mainly of carbon polymers and is compliable and moldable.
		<a href="https://en.wikipedia.org/wiki/Thermoplastic">https://en.wikipedia.org/wiki/Thermoplastic</a>