

UNIT	STANDARD	OBJECTIVES (What it looks like in the classroom) The learner will i	Vocabulary terms	# OF DAYS NEEDED FOR MASTERY	INSTRUCTION BEGIN	ASSESSMENT TYPE (performance, project, written test)	RESOURCES (Materials, web sites, auto-visual, print)	LEARNING ACTIVITIES
Lesson 1 Using the Interface		Become familiar with Microsoft Windows and SolidWorks user interface.		2	Semester Course	5 minute assessment Vocabulary Worksheet Lesson Quiz		Starting Exiting A program Filing a program
Lesson 2 Basic Functionality		Develop an understanding of 3D modeling and recognition of an object in 3D space. Apply 2D sketch geometry. Understand 3D features that add and remove geometry.		8		5 minute assessment Vocabulary Worksheet Lesson Quiz		Design a Switch Plate
Lesson 3 Understanding 3D features Apply Sketch Geometry		Reinforce the understanding of 3D features that add and remove geometry. Apply 2D sketch geometry, rectangle, circle, and dimensions.		10		5minute assessment Unit conversion worksheet Material volume assessment Lesson Quiz		Create parts using tutorial 1

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Lesson 4 Assembly Basics		Develop and understanding Of 3D assembly modeling. Apply 2D sketch tools to offset geometry and project geometry to the sketch plane.		10		5 minute assessment Vocabulary worksheet Lesson Quiz		Create parts using tutorial 2, part and tutor assembly
Lesson 5 Toolbox Basics		Develop an understanding Solidworks toolbox, a component library of standard parts. Understand how library components are utilized in an assembly.		10		5 minute assessment Vocabulary worksheet Lesson 5 Quiz		Assemble a standard toolbox pan head screw to the switch plate made in lesson 2
Lesson 6 Drawing Basics		Understand basic drawing concepts. Apply drawing standards to part and assembly drawings. Create a drawing template.		10		5 minute assessment Lesson Quiz		Create a drawing for tutorial 2, the storage box, and the switchplate.

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Lesson 7 Revolve and Sweep features		Understand 3 D features that add and remove geometry including Revolve and Sweep. Apply 2D sketch tools such as ellipse, trim and centerline.		10		5 minute assessment Lesson Quiz		Create Candlestick part. Create a candle and modify the switchplate from lesson 4.
Lesson 10 Loft features		Understand the 3D Loft feature created from multiple profiles sketched on different planes.		10		5 minute assessment Lesson Quiz		Create Chisel part. Create a bottle and a screwdriver.

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