

Name: \_\_\_\_\_

Score: \_\_\_\_\_

## Learning to Use Solidworks Like a Pro

A major goal of this assignment is to gain the skills needed to communicate your own ideas as a designer or engineer using industry standard software called SolidWorks. After you have learned some new knowledge and practiced specific skills, you can communicate project ideas.

Each part of the assignment is listed below is designed to give background knowledge and demonstrate skills needed to become a proficient user of the SolidWorks software. You will view short video clips and use downloaded sample files to practice the techniques demonstrated in each clip. You will need to bring your own “mini headphones.”

Please follow the following links to view demonstration videos to create parts, assemblies, and drawings in Solidworks. Each assignment has multiple parts.

Each of the lessons should be followed in sequence.

**Assignment 5a:** In assignment 5a you will view 3 video files, (about 5 minutes each) and practice the skills demonstrated in each video. These will help you become a design Pro! Hold down the **ctrl Key** and click on the **url** to get to the video clips. Each clip will look like the icons below:

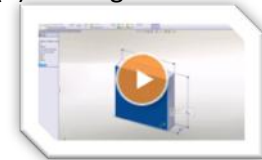
(1)SolidWorks 3D Design Overview –



(2) User Interface –



(3)Drafting Standards



<http://www.solidworks.com/sw/resources/getting-started-3d-design-overview.htm>

**Assignment 5b:** In assignment 5b you will view 8 short videos (about 17 minutes total) to build a camera part. First you will learn several ways to view models in Solidworks, then you will “Create a part”, add features to a part like circles and holes, round edges and modify a part.

<http://www.solidworks.com/sw/resources/getting-started-3d-parts-design.htm>

**Assignment 6:** In assignment 6 you will view 10 short videos to build your first assembly. You will also be introduced to many useful tools used to assemble and animate different parts. This assignment takes a little longer but allows you to do some cool things! You will like it!

<http://www.solidworks.com/sw/resources/getting-started-3d-assemblies.htm>

**Assignment 7:** In assignment 7 you will view 4 short videos to learn about drawing. You will also be introduced to templates, bill of materials and title blocks.

<http://www.solidworks.com/sw/resources/getting-started-part-and-assembly-drawings.htm>

Name: \_\_\_\_\_

Score: \_\_\_\_\_

**Assignment 8:** In assignment 8 you will view 4 short videos to learn how SolidWorks simulation and analysis tools validate performance of a design.

<http://www.solidworks.com/sw/resources/getting-started-simulation-and-analysis-tools.htm>

**Assignment 9:** In assignment 9 you will view 2 short videos to learn how Life Cycle Assessment tools are used to evaluate product cycles and carbon footprints in an effort to produce more sustainable products.

<http://www.solidworks.com/sw/resources/getting-started-sustainability.htm>