

Onshape Video/Worksheet Resources

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[PLTW Summit links](#)

Object / Video	Information, tools, and concepts learned	Worksheet
Simple Cube	Simple: basic tools and navigation, dimension, extrude	Directions
Pegboard toy Part 1 Part 2 Part 3 Part 4	Simple: PLTW pegboard toy Part 1: create pegs and pegboard and mate them Part 2: create end pieces and mate them Part 3: add triangle peg and revise pegboard Part 4: create mallet and handle and mate them	Directions
<i>Christmas Ornament</i>	Simple: basic tools, dimension, extrude, text	Directions
Pokeball	Intermediate: revolve, midpoint constraint, new Plane	Directions
Valentine Heart keychain	Simple: basic tools, dimension, extrude, text	Directions
Holder block	Intermediate: subtractive modeling	Directions
VBuck	Intermediate: revolve, circular pattern, trim, chamfer, construction line, parallel constraint	Directions
Bracket	Intermediate: different types of holes; countersink, counterbore	Directions
Keychain	Intermediate: shell, hole, text tools	Directions
Mug	Intermediate: Revolve and arc tools	Directions
Fidget Spinner	Intermediate: arc tool, circular pattern tool. Fidget spinner rules , Fidget spinner Presentation , contract	Directions
Skateboard wheel	Intermediate: Revolve, mirror tool, dimensioning with a construction line	Directions
Techdeck	Intermediate: mirror and text tools	Directions

Object / video - click on the links to watch videos demonstrating how to create different objects using Onshape. I did not “invent” any of these projects. All of the projects above have been “borrowed” from other people’s ideas and I just created the directions and videos for my students.

Directions are PDF documents that go along with the videos.

[How to export part file as an .stl](#)

[Dial Caliper clip stl file](#)