

Mechanical Engineering

Tools that I learned or practiced:

Joints and pivots
Wheel and axle
Cams
Gears
Motors

Structural Engineering

Tools that I learned or practiced:

Trusses
Load testing
Chair/table design
Bridge design

Adhesives

Tools that I learned or practiced:

Hot glue
Joints, hinges
Duct tape
Plastic/acrylic glue
Clamps
Wood glue, fabric glue

Design Science

Tools that I learned or practiced:

Interviewing
Observations
Empathizing
Brainstorming
Prototyping
Testing prototypes

Research

Tools that I learned or practiced:

Interviewing
Observing
Finding internet sources
EBSCO
Note taking

TeamWork

Tools that I learned or practiced:

Being kind
Listening
Sharing ideas
Humor
Setting goals, staying focused

Making Learning Visible

Tools that I learned or practiced:

Self-assessments
Giving peers feedback
Portfolio
Website
Public showcase of work

Making Models

Tools that I learned or practiced:

Scale models
Sci-ART
Infographics
Data Visuals
Posters