Developments

Content Area: 21st Century Life & Careers

Course(s): Generic Course
Time Period: Marking Period 3

Length: 4 Weeks
Status: Published

Unit Introduction

Standards

ç	9.3.12.AC.6	Read, interpret and use technical drawings, documents and specifications to plan a project.
g	9.3.12.AC-DES.6	Apply the techniques and skills of modern drafting, design, engineering and construction to projects.
Þ	ARCH.9-12.9.4.12.B.(1).9	Develop technical drawings drafted by hand and computer-generated plans to design structures.
Þ	ARCH.9-12.9.4.12.B.7	Demonstrate use of the concepts, strategies, and systems for obtaining and conveying ideas and information to enhance communication.
A	ARCH.9-12.9.4.12.B.13	Apply active listening skills to obtain and clarify information.
Þ	ARCH.9-12.9.4.12.B.17	Use vocabulary and visual cues commonly used in design and construction to communicate successfully.
Þ	ARCH.9-12.9.4.12.B.18	Employ critical thinking skills (e.g., analyze, synthesize, and evaluate) independently and in teams to solve problems and make decisions.
P	ARCH.9-12.9.4.12.B.61	Demonstrate skills related to seeking and applying for employment in a desired job.
Þ	ARCH.9-12.9.4.12.B.62	Maintain a career portfolio to document knowledge, skills, and experience in a career field.
S	TEM.9-12.9.4.12.O.2	Demonstrate mathematics knowledge and skills required to pursue the full range of postsecondary education and career opportunities.
S	STEM.9-12.9.4.12.O.30	Employ computer operations applications to manage tasks.
S	TEM.9-12.9.4.12.O.48	Employ teamwork skills to achieve collective goals and use team members' talents effectively.
S	STEM.9-12.9.4.12.O.51	Employ mentoring skills to assist others.
S	TEM.9-12.9.4.12.O.58	Maintain a career portfolio to document knowledge, skills, and experience in a career field.

Essential Questions

1. How are development drawing/plans used in manufacturing/construction?

Content / Skills

Students will draw various development patterns/stretchouts that can be used to fabricate a 3D model.

Textbooks:

Basic Technical Drawing - Spencer, Dygdon, Novak, 8th edition, 2004

Engineering Drawing & Design - D.A. Madsen, D.P. Madsen, 6th edition, 2017

Skills: See Below

- brainstorming/modelstorming
- craftmanship
- dimensioning
- Interpreting Orthographic views
- Layout
- math operations
- measurement
- Plotting Drawings to Scale
- safety
- teamwork
- using CAD
- visualization