

Unit 10 Electrical

Content Area: **21st Century Life & Careers**
Course(s): **Generic Course**
Time Period: **Marking Period 1**
Length: **6-8 Weeks**
Status: **Published**

Unit Introduction

Standards

9.3.12.AC.1	Use vocabulary, symbols and formulas common to architecture and construction.
9.3.12.AC.6	Read, interpret and use technical drawings, documents and specifications to plan a project.
9.3.12.AC-CST.9	Safely use and maintain appropriate tools, machinery, equipment and resources to accomplish construction project goals.
ARCH.9-12.9.4.12.B.(1).10	Demonstrate understanding of principles, conventions, standards, applications, and restrictions pertaining to the manufacture and use of construction materials, components, and assemblies, and incorporate this understanding into project design.
ARCH.9-12.9.4.12.B.(1).11	Apply basic organizational, spatial, structural, and constructional principles to the design of interior and exterior space so that design plans are effective.
ARCH.9-12.9.4.12.B.74	Read, interpret, and use technical drawings, documents, and specifications to plan a project.
STEM.9-12.9.4.12.O.2	Demonstrate mathematics knowledge and skills required to pursue the full range of postsecondary education and career opportunities.
STEM.9-12.9.4.12.O.30	Employ computer operations applications to manage tasks.

Essential Questions

1. How is electricity used in our world?
2. What types of materials are conductors of electricity and what materials are not conductors (insulators)?

Content / Skills

Textbooks: Carpentry and Building Construction

Skills (See Below):

- brainstorming/modelstorming
- craftsmanship
- design process
- dimensioning
- Layout
- math operations
- measurement
- safety
- teamwork
- visualization