# Unit 03: Now You're Cooking - Kitchen Design

Content Area:	Technology
Course(s):	Architecture
Time Period:	October
Length:	12 Blocks
Status:	Published

# **Transfer Skills**

Efficient kitchen design is planned around the stove, sink, and refrigerator, which all form the "work triangle."

# **Enduring Understandings**

1. Kitchen design is mainly driven by client needs and specifications.

2. Kitchens are often designed in combination with the dining and living rooms to form one large living/eating area.

3. Efficient kitchen design is planned around the stove, sink, and refrigerator, which all form the "work triangle."

# **Essential Questions**

1. Why are kitchens often the first room designed when designing a whole house?

2. What safety concerns are there when designing a kitchen?

3. What are some of the client needs to keep in mind when designing kitchens?

4. What factors needs to be taken into consideration when designing the cabinet layout in a kitchen?

5. Why are kitchens sometimes considered the "heart" of a house?

#### Content

Vocabulary:

work triangle, I-shape, U-shape, L-shape, corridor, peninsula, island, elevation drawing, sink, oven, range, refrigerator, breakfast bar, breakfast nook, lower cabinets, upper cabinets, dish washer

#### Skills

- 1. Classify and discuss the various types of kitchen layout.
- 2. Calculate the work triangle in a kitchen.

3. Create layouts of the counters, appliances and cabinets for kitchens of various shapes and sizes.

- 4. Create an elevation drawing of a kitchen.
- 5. Create a floor plan of a custom kitchen that incorporates safety, client needs, efficiency.
- 6. Create a scale model of a custom kitchen design.

#### Resources

11x17 Paper / Drawing Boards / T Square / Pencil / Erasers / Rendering Markers

#### **Standards**

# NJ: Grade 9 - 12

## 9.3 CTE: B. Architecture & Construction Career Cluster

#### **Academic Foundations:**

9.3.12.AC-DES.5 Identify the diversity of needs, values and social patterns in project design, including accessibility standards.

#### **Communication Skills:**

9.3.12.AC-DES.6 Apply the techniques and skills of modern drafting, design, engineering and construction to projects.

9.3.12.AC-DES.7 Employ appropriate representational media to communicate concepts and project design.

9.3.12.AC-DES.1 Justify design solutions through the use of research documentation and analysis of data.

## **Problem-Solving and Critical Thinking:**

9.3.12.AC-DES.8 Apply standards, applications and restrictions pertaining to the selection and use of construction materials, components and assemblies in the project design.

9.3.12.AC.4 Evaluate the nature and scope of the Architecture & Construction Career Cluster and the role of architecture and construction in society and the economy.

9.3.12.AC.6 Read, interpret and use technical drawings, documents and specifications to plan a project.

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