

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

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

## Transfer Skills

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

## Enduring Understandings

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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

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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**

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### 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**

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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**

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

## **Standards**

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## 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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