Unit 05: Crack the Code - Building Codes, Zoning Regulations

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

Enduring Understandings

1. Houses should be designed around building codes and zoning regulations.

2. Zoning regulations are local laws specifying the types of buildings that can be built in an assigned area.

3. Building codes that can limit house design include maximum building height, maximum sound output, exterior appearance, and property line setback.

4. Zoning regulations determine what type of structures, residential, industrial or commercial, can be built in specific locations.

Essential Questions

1. Why are building codes needed?

2. What level of government, local, state, or national, should have control over building codes?

3. What are the repercussions if a building code is not followed?

4. What are the repercussions if a building permit is not obtained before construction begins?

5. Why are groups of streets/neighborhoods grouped together in the same zoning area?

Content

Vocabulary:

zoning regulations, zoning board, building codes, building inspector, building permits, building setback, easement, variance, construction permit, certificate of occupancy

Skills

1. Compare and contrast zoning regulations, building codes and permits, and report the results.

2. Analyze a set of construction projects to determine permits required.

3. Create a report outlining building codes to use for the construction of a shed.

4. Create a report that discusses the procedure for procuring the proper building permits from local government.

Resources

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

Standards

NJ: Grade 9 - 12

9.3 CTE: B. Architecture & Construction Career Cluster

Communication and Project Planning:

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.

9.3.12.AC□CST.2

Describe the approval procedures required for successful completion of a construction project.

9.3.12.AC□CST.5

Apply practices and procedures required to maintain jobsite safety.

Project Planning and Preparation:

9.3.12.AC□DES.1

Justify design solutions through the use of research documentation and analysis of data.

9.3.12.AC□DES.4

Apply scheduling practices to ensure the successful completion of a construction project.

Safety, Health and Environment:

9.3.12.AC□CST.9

Safely use and maintain appropriate tools, machinery, equipment and resources to accomplish construction project goals.

9.3.12.AC□CST.3

Implement testing and inspection procedures to ensure successful completion of a construction project.

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.
9.3.12.AC-CST.2	Describe the approval procedures required for successful completion of a construction project.
9.3.12.AC-CST.3	Implement testing and inspection procedures to ensure successful completion of a construction project.
9.3.12.AC-CST.5	Apply practices and procedures required to maintain jobsite safety.
9.3.12.AC-CST.9	Safely use and maintain appropriate tools, machinery, equipment and resources to accomplish construction project goals.
9.3.12.AC-DES.1	Justify design solutions through the use of research documentation and analysis of data.
9.3.12.AC-DES.4	Apply building codes, laws and rules in the project design.