

# 7th Grade Arts Integration Medieval Castles

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## UNIT LESSONS

This unit is designed to build connections between science, math, history, and art. Students will learn about aerial perspective, simple machines, medieval war machines, and medieval architecture. In groups, students will synthesize what they learn to design, sketch, and build their own medieval castles using recycled materials. The culmination of the unit is a medieval siege tournament wherein students use their "Quick Build" catapults to attack other castles. In order to survive the siege, students must build a strong castle, and a working medieval war machine.

### Lessons Contained:

1. Quick Build: Catapult
2. Aerial Perspective
3. Medieval Architecture & Castle Design
4. Design Your Own Castle
5. Assemblage Castle Sculpture
6. Medieval Siege Tournament



## STANDARDS

Visual Art Standards (applicable to this unit)

### Aesthetic Perception

2.2 Identify and describe proportion as applied to two-dimensional & three-dimensional works of art

2.3 Analyze and describe the ways in which artists convey the illusion of space (e.g., placement, overlapping, relative size, atmospheric perspective, and linear perspective).

### Creative Expression

2.1 Develop increasing skill in the use of at least three different media

2.2 Use different types of perspective to show the illusion of depth on a two-dimensional surface

### Historical and Cultural Context

3.1 Research and describe how art reflects cultural values in various traditions throughout the world

### Aesthetic Meaning

4.4 Develop and apply specific and appropriate criteria individually or in groups to assess and critique works of art.

Science Standards (applicable to this unit)

MS-ETS1-1. Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution, taking into account relevant scientific principles and potential impacts on people and the natural environment that may limit possible solutions.

MS-ETS1-2. Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.

MS-ETS1-4. Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved.

Math Standards (applicable to this unit)

### Geometry

1. Solve problems involving scale drawings of geometric figures, including actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.

2. Draw geometric shapes with given conditions.

6. Solve real-world and mathematical problems involving area, volume, and surface area of two and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.

History & Social Studies Standards (applicable to this unit)

7.6 Students analyze the geographic, political, economic, religious, and social structures of the civilizations of Medieval Europe.

## RESOURCES

- Teacher Guide for Unit: <http://ecoo.us/17MS12>
- Aerial Perspective Lesson Plan <http://ecoo.us/17MS12>
- Handout "Castle Design" <http://ecoo.us/17MS12>
- Handout "Siege Tournament" <http://ecoo.us/17MS12>
- Handout "Tournament Score Sheet" <http://ecoo.us/17MS12>
- Video "Levers & Fulcrum" <https://ecoo.us/17MS12>
- Video "Bill Nye & Catapults" <https://ecoo.us/17MS12>
- Video "Living in a Castle" <https://ecoo.us/17MS12>
- Video "Tour Conway Castle" <https://ecoo.us/17MS12>
- Video "Storming a Castle" <https://ecoo.us/17MS12>
- Video "Methibusters Trebuchet" <https://ecoo.us/17MS12>
- Video "Trebuchet in Action" <https://ecoo.us/17MS12>



## ART MATERIALS

- white paper (8in x 12 in)
- pencils
- rulers
- erasers
- colored pencils
- recycled cardboard
- scissors
- school glue
- hot glue
- construction paper
- paint



## PROCESS

1. Aerial Perspective lesson
2. "Quick Build" Catapults
3. Define "Lever" and "Fulcrum"
4. Review & introduce medieval social hierarchy
5. Identify, define, compare & contrast castles
6. Identify & define castle parts
7. Identify & define medieval war machines
8. Overview castle blueprints
9. Castle blueprints
10. Castle building
11. Overview Siege Tournament
12. Conduct Siege



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## **Table of Contents 7th Grade Report Handout**

1. Understanding the eBook 7th Grade Report Handout
  - The Rise of Digital Reading 7th Grade Report Handout
  - Advantages of eBooks Over Traditional Books
2. Identifying 7th Grade Report Handout
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 7th Grade Report Handout
  - User-Friendly Interface
4. Exploring eBook Recommendations from 7th Grade Report Handout
  - Personalized Recommendations
  - 7th Grade Report Handout User Reviews and Ratings
  - 7th Grade Report Handout and Bestseller Lists
5. Accessing 7th Grade Report Handout Free and Paid eBooks
  - 7th Grade Report Handout Public Domain eBooks
  - 7th Grade Report Handout eBook Subscription Services

- 7th Grade Report Handout Budget-Friendly Options
- 6. Navigating 7th Grade Report Handout eBook Formats
  - ePUB, PDF, MOBI, and More
  - 7th Grade Report Handout Compatibility with Devices
  - 7th Grade Report Handout Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 7th Grade Report Handout
  - Highlighting and Note-Taking 7th Grade Report Handout
  - Interactive Elements 7th Grade Report Handout
- 8. Staying Engaged with 7th Grade Report Handout
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 7th Grade Report Handout
- 9. Balancing eBooks and Physical Books 7th Grade Report Handout
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 7th Grade Report Handout
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 7th Grade Report Handout
  - Setting Reading Goals 7th Grade Report Handout
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 7th Grade Report Handout
  - Fact-Checking eBook Content of 7th Grade Report Handout
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web this video covers in detail how to build the basic test circuit found in the datasheet of the icl 8038 i am using the dso shell oscilloscope which is a cheap and descent scope for basic projects

*icl8038 waveform generator functions applications* - Apr 30 2022

web apr 8 2022 description the icl8038 waveform generator is a monolithic integrated circuit capable of producing high accuracy sine square triangular sawtooth and pulse waveforms with a minimum of external components

**icl8038 datasheet pdf intersil corporation** - Jul 14 2023

web the icl8038 waveform generator is a monolithic integrated circuit capable of producing high accuracy sine square triangular sawtooth and pulse waveforms with a minimum of external components

**icl8038 function generator electronics diy** - Feb 09 2023

web icl8038 function generator function generator with adjustable frequency from 0 hz to over 400 khz adjustable amplitude dc offset duty and of course the function selection square triangle and sine generator based on good old icl8038 integrated chip generator that gives pretty good shaped signals as for amateur purposes