

# 7TH GRADE ACCELERATED MATHEMATICS

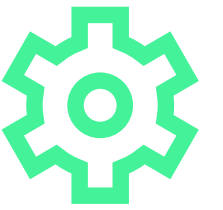
## CHAPTER

## BENCHMARKS

★ COMPLETE



## DEFINED LEARNING PROJECTS



1

### EQUATIONS AND INEQUALITIES

MA.7.NSO.1.2  
MA.7.AR.2.2  
MA.8.AR.2.1  
MA.8.AR.2.2

- Car Dealership CEO
- Game Designer: County Fair
- Baker: Cupcakes
- Advertising Manager: Facial Products
- Scuba Divemaster
- Local Development Planner
- Food Truck Entrepreneur
- Artificial Island Real Estate
- Materials Engineer
- Financial Analyst: LED Street Lights
- Virtual Store Owner
- Kinetic Artist
- Food Truck Owner
- Designer: Aquatic Habitats

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### RATIOS AND PROPORTIONS

MA.7.AR.3.3  
MA.7.AR.4.2  
MA.7.AR.4.3  
MA.7.AR.4.4  
MA.7.AR.4.5

- Park Designer
- Scoutmaster
- Campaign Manager
- Community Garden Coordinator
- Aeronautical Engineer
- Community Wellness Coach
- Automotive Finance Manager
- Car Dealership CEO
- Financial Analyst: LED Street Lights
- Virtual Store Owner
- Goal 11: Sustainable Cities and Communities
- Prosthetist: Helping Animals with Prosthetic Designs
- Game Designer: County Fair
- Rocket Golf Course Designer
- Food Truck Entrepreneur
- Paramedic
- Artificial Island Real Estate
- Advertising Manager: Facial Products
- Energy Engineer: Net-Zero School
- Baker: Cupcakes
- Civil Engineer: Multip-Purpose Sports Entertainment Complex

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### TRANSFORMATIONS

MA.8.GR.2.2  
MA.8.GR.2.3

- Tattoo Artist

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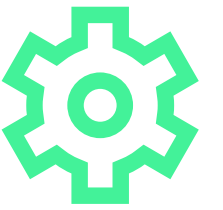
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ANGLES  
AND  
TRIANGLES

MA.8.GR.1.5  
MA.8.GR.1.6

- [Roof Truss Manufacturer](#)
- [Police Officer: Accident Investigator](#)

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LINEAR  
EQUATIONS  
AND  
LINEAR SYSTEMS

MA.8.AR.3.2  
MA.8.AR.4.1  
MA.8.AR.4.2  
MA.8.AR.4.3

- [Aircraft Designer](#)
- [Community Wellness Coach \(A\)](#)
- [Food Activist: Eco-Friendly Meal Kit](#)
- [Automotive Finance Manager \(A\)](#)
- [Aeronautical Engineer](#)
- [Community Wellness Coach \(B\)](#)
- [Automotive Finance Manager \(B\)](#)
- [Financial Analyst: LED Street Lights](#)
- [Virtual Store Owner](#)
- [Architect: Net-Zero Energy](#)

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PROBABILITY  
AND  
DATA DISPLAYS

MA.8.AR.3.5  
MA.8.DP.1.1  
MA.8.DP.1.2  
MA.8.DP.1.3  
MA.8.DP.2.3

- [Aircraft Designer](#)
- [Community Wellness Coach \(A\)](#)
- [Food Activist: Eco-Friendly Meal Kit](#)
- [Automotive Finance Manager \(A\)](#)
- [Aeronautical Engineer](#)
- [Community Wellness Coach \(B\)](#)
- [Automotive Finance Manager \(B\)](#)
- [Financial Analyst: LED Street Lights](#)
- [Virtual Store Owner](#)
- [Researcher: Sampling \(A\)](#)
- [Truck Fleet Manager](#)
- [Cybersecurity Analyst](#)
- [Actuary: Car Insurance](#)
- [Researcher: Sampling \(B\)](#)
- [Game Designer: County Fair](#)
- [Actuary: Hurricane Relief](#)

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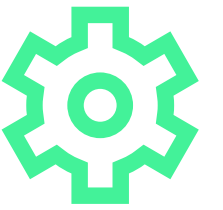
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## DEFINED LEARNING PROJECTS



7

FUNCTIONS

MA.8.AR.3.3  
MA.8.AR.3.4  
MA.8.F.1.1  
MA.8.F.1.2  
MA.8.F.1.3

- Aeronautical Engineer
- Community Wellness Coach
- Financial Analyst: LED Street Lights
- Virtual Store Owner
- Aircraft Designer
- Food Activist: Eco-Friendly Meal Kit
- Pyrotechnician
- Rocket Golf Course Designer
- Police Officer: Accident Investigator
- Truck Fleet Manager
- Automotive Finance Manager
- Super Truck

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EXPONENTS  
AND  
SCIENTIFIC  
NOTATION

MA.7.NSO.1.1  
MA.8.NSO.1.3  
MA.8.NSO.1.4  
MA.8.NSO.1.5  
MA.8.NSO.1.6

- Math Teacher
- Automotive Finance Manager

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REAL NUMBERS  
AND THE  
PYTHAGOREAN  
THEOREM

MA.8.NSO.1.2  
MA.8.AR.2.3  
MA.8.GR.1.1  
MA.8.GR.1.2  
MA.8.GR.1.3

- Smartphone Designer (A)
- Food Activist: Eco-Friendly Kits
- Police Officer: Accident Investigator
- Smartphone Designer (B)
- Aquarium Designer
- Roof Truss Manufacturer
- Architect: Tiny House
- Rain Barrel Manufacturer
- Interior Designer: Socially Distanced Classroom

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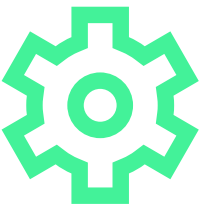
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## BENCHMARKS

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## DEFINED LEARNING PROJECTS



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CIRCLES  
AND  
CYLINDERS

MA.7.GR.1.3  
MA.7.GR.1.4  
MA.7.GR.1.5  
MA.7.GR.2.1  
MA.7.GR.2.3

- Interior Designer: Socially Distanced Classroom
- Rain Barrel Manufacturer
- Urbanist: 15 Minute Cities
- Planning Committee: Pi Day Celebration
- Architect: Tiny House
- Goal 9: Industry, Innovation and Infrastructure
- HoverBoard or Bust
- Prosthetist: Helping Animals with Prosthetic Designs
- Curator: Immersive Animal Experience
- Graphic Artist: Cereal Box Design
- Humanitarian: Hurricanes
- Manufacturer: Ethical Coffee Cup Insulation