

Desmos Math Alignment to IN Integrated STEM Standards

Desmos Math 6-8 offers a variety of opportunities for students to independently apply mathematical concepts in real-world situations applicable to STEM fields. The examples listed below represent only a small portion of these opportunities. One example is provided per standard per grade level where applicable.

Communication and Collaboration		
6.CC.1 7.CC.1 8.CC.1	Collect and document evidence to share information with others in multiple media forms.	Grade 6, Unit 8, Lesson 3 Grade 7, Unit 8, Lesson 8 Grade 8, Unit 6, Lesson 2
6.CC.2 7.CC.2 8.CC.2	Communicate the solution(s) of a problem/analysis either orally, visually, or in writing, including process steps, findings, or conclusions.	Grade 6, Unit 5, Lesson 12, Activity 2 Grade 7, Unit 6, Lesson 15 Grade 8, Unit 7, Lesson 13
6.CC.3 7.CC.3 8.CC.3	Identify, implement, and assign roles and responsibilities to collaborate in various group settings (i.e., online, onsite and/or hybrid) and situations.	Grade 6, Unit 7, Lesson 12, Activity 2 Grade 7, Unit 6, Lesson 11 Grade 8: N/A
6.CC.4 7.CC.4 8.CC.4	Communicate specific constraints and criteria established for an investigation.	Grade 6, Unit 8, Lesson 16, Activity 2 Grade 7, Unit 8, Lesson 15, Activity 2 Grade 8, Unit 5, Lesson 8
6.CC.5 7.CC.5 8.CC.5	Evaluate competing solutions or arguments in a systematic way based on qualitative and/or quantitative evidence.	Grade 6, Unit 1, Lesson 7, Activity 2 Grade 7, Unit 7, Lesson 11, Activity 1 Grade 8, Unit 4, Lesson 10

Data Analysis and Measurement		
6.DM.1 7.DM.1 8.DM.1	Use multiple systems of measurement (i.e., standard and metric) and data sets (e.g., plots, tables, graphs, charts) defined in grade level content standards to analyze real-world scenarios and the mathematical relationships represented	Grade 6, Unit 8, Lesson 4 Grade 7, Unit 2, Lesson 11 Grade 8, Unit 6, Lesson 10

	by the data.	
6.DM.2 7.DM.2 8.DM.2	Construct visual representations (e.g., bar graphs, charts) to determine patterns or statistical analysis (e.g., mean, median) defined in grade level content standards.	Grade 6, Unit 8, Lesson 6 Grade 7, Unit 8, Lesson 15, Activity 2 Grade 8, Unit 6, Lesson 11
6.DM.3 7.DM.3 8.DM.3	Use approximations and evaluate reasonableness of observations, results, and solutions throughout processes.	Grade 6, Unit 4, Lesson 1 Grade 7, Unit 2, Lesson 12 Grade 8, Unit 8, Lesson 3
6.DM.4 7.DM.4 8.DM.4	Choose data sets and analysis methods to support the inquiry process.	Grade 6, Unit 8, Lesson 10, Activity 2 Grade 7, Unit 8, Lesson 13 Grade 8, Unit 6, Lesson 11

Inquiry-Based Approaches and Problem Solving		
6.IPS.1 7.IPS.1 8.IPS.1	Conduct or extend an original investigation, analyze results, iterate, and revise to improve the design.	Grade 6, Unit 8, Lesson 16 Grade 7, Unit 8, Lesson 15, Activity 2 Grade 8, Unit 4, Lesson 10
6.IPS.2 7.IPS.2 8.IPS.2	Determine one or more viable solutions using data and information to resolve a scenario given criteria and constraints.	Grade 6, Unit 5, Lesson 12, Activity 1 Grade 7, Unit 5, Lesson 13, Activity 2 Grade 8, Unit 6, Lesson 8
6.IPS.3 7.IPS.3 8.IPS.3	Integrate processes and methodologies across disciplines based on content specific standards to incorporate multiple sources of evidence to support defining a solution.	Grade 6: N/A Grade 7, Unit 5, Lesson 12 Grade 8, Unit 7, Lesson 10

Applications and Modeling		
6.AM.1 7.AM.1	Interpret and evaluate relationships among sets of data (e.g., distance-time graph).	Grade 6, Unit 6, Lesson 14 Grade 7, Unit 2, Lesson 10

8.AM.1		Grade 8, Unit 5, Lesson 5
6.AM.2 7.AM.2 8.AM.2	Use coordinate planes or number lines to examine information and represent solutions.	Grade 6, Unit 7, Lesson 12 Grade 7, Unit 5, Lesson 4 Grade 8, Unit 5, Lesson 3
6.AM.3 7.AM.3 8.AM.3	Use models to compare and contrast different systems and explain the factors that influence them.	Grade 6, Unit 6, Lesson 15 Grade 7, Unit 2, Lesson 11 Grade 8, Unit 4, Lesson 8
6.AM.4 7.AM.4 8.AM.4	Use and revise models to describe, test, and predict phenomena or solutions.	Grade 6, Unit 6, Lesson 16 Grade 7, Unit 6, Lesson 12 Grade 8, Unit 4, Lesson 10

Information and Digital Literacy		
6.IDL.1 7.IDL.1 8.IDL.1	Identify and evaluate the impact of technology when selecting tools to solve a problem in order to determine the most effective solution.	Grade 6: N/A Grade 7: N/A Grade 8: N/A
6.IDL.2 7.IDL.2 8.IDL.2	Review and compile information from multiple sources to solve a problem	Grade 6, Unit 3, Lesson 13, Activity 2 Grade 7, Unit 4, Lesson 12 Grade 8, Unit 6, Lesson 11
6.IDL.3 7.IDL.3 8.IDL.3	Describe how solutions or technologies are adapted to meet the changing needs and wants of individuals or communities.	Grade 6: N/A Grade 7: N/A Grade 8: N/A