

Grade 8 Homeschool Plan

Prepare for high school with linear models, complex texts, physical science, and civic foundations.

36 weeks Suggested full-year sequence	4 core subjects Math, ELA, science, social studies	Flexible Fridays Review, projects, field trips, catch-up	Printable-friendly Worksheets, notes, and progress checks
---	--	--	---

PLAN AT A GLANCE		HOW TO USE THIS PLAN
Grade band	Middle School (6-8)	1 Preview the quarter: Skim the next nine weeks and gather books, printables, and simple materials. 2 Teach the weekly focus: Use the topic as a learning target, then select practice at the student's level. 3 Keep evidence: Save a few work samples, reading notes, lab pages, and project photos. 4 Adjust without guilt: Repeat, shorten, reorder, or skip material when the learner's needs call for it.
Suggested daily time	4.5-5.5 hours of academics, with sustained independent projects	
Core course path	Math 8, ELA 8, Physical/Life Science, U.S. History to Reconstruction	
Assessment rhythm	End-of-unit checks plus four quarterly reviews	
Recommended pace	Four focused learning days and one flexible day each week	

SUGGESTED WEEKLY RHYTHM

Monday	Tuesday	Wednesday	Thursday	Friday
Introduce and model	Guided practice	Apply and discuss	Check mastery and extend	Project, review, catch-up, or field trip

Planning note: This is a flexible, standards-informed sequence - not a state-certified curriculum, legal filing, or guarantee of credit. Verify homeschool, attendance, assessment, and graduation rules where you live.

Quarter 1 | Weeks 1-9

Two four-week learning units plus a review and showcase week. Weeks 1-9.

MATH FOCUS		ELA FOCUS		SCIENCE FOCUS	
Real numbers and exponent rules / Linear equations and inequalities		Evidence, annotation, and complex texts / Theme, symbolism, and literary analysis		Atomic structure and chemical interactions / Forces, motion, and Newtonian systems	
SOCIAL STUDIES FOCUS					
Indigenous societies and colonial America / Revolution and founding principles					
Week	Math	English / ELA	Science	Social Studies	Family / Project
1	Explore & model: Real numbers and exponent rules	Read & notice: Evidence, annotation, and complex texts	Observe & question: Atomic structure and chemical interactions	Ask & source: Indigenous societies and colonial America	Plan: Linear Model From Real Data
2	Guided practice: Real numbers and exponent rules	Discuss & practice: Evidence, annotation, and complex texts	Investigate & model: Atomic structure and chemical interactions	Map/timeline & analyze: Indigenous societies and colonial America	Build: Linear Model From Real Data
3	Apply & solve: Real numbers and exponent rules	Write & apply: Evidence, annotation, and complex texts	Explain from evidence: Atomic structure and chemical interactions	Compare perspectives: Indigenous societies and colonial America	Refine: Linear Model From Real Data
4	Mastery check: Real numbers and exponent rules	Conference & extend: Evidence, annotation, and complex texts	Reflect & design: Atomic structure and chemical interactions	Communicate & connect: Indigenous societies and colonial America	Share: Linear Model From Real Data
5	Explore & model: Linear equations and inequalities	Read & notice: Theme, symbolism, and literary analysis	Observe & question: Forces, motion, and Newtonian systems	Ask & source: Revolution and founding principles	Plan: Founding Documents Seminar
6	Guided practice: Linear equations and inequalities	Discuss & practice: Theme, symbolism, and literary analysis	Investigate & model: Forces, motion, and Newtonian systems	Map/timeline & analyze: Revolution and founding principles	Build: Founding Documents Seminar
7	Apply & solve: Linear equations and inequalities	Write & apply: Theme, symbolism, and literary analysis	Explain from evidence: Forces, motion, and Newtonian systems	Compare perspectives: Revolution and founding principles	Refine: Founding Documents Seminar
8	Mastery check: Linear equations and inequalities	Conference & extend: Theme, symbolism, and literary analysis	Reflect & design: Forces, motion, and Newtonian systems	Communicate & connect: Revolution and founding principles	Share: Founding Documents Seminar
9	Spiral review, fluency check, and applied task	Portfolio check, reading conference, and polished writing	Concept map, evidence explanation, and investigation reflection	Source analysis, map/timeline review, and discussion	Quarter showcase, goal reset, and flexible catch-up
KEEP Which routines and resources worked well?		ADJUST Which skill needs more time or a different approach?		CELEBRATE Choose one work sample that shows meaningful growth.	

Quarter 2 | Weeks 10-18

Two four-week learning units plus a review and showcase week. Weeks 10-18.

MATH FOCUS		ELA FOCUS		SCIENCE FOCUS		SOCIAL STUDIES FOCUS	
Functions and representations / Systems of linear equations		Informational text, rhetoric, and argument / Comparing sources, claims, and viewpoints		Energy, waves, sound, and light / Electricity, magnetism, and technology		Constitution, federalism, and structure / Early republic, growth, and reform	
Week	Math	English / ELA	Science	Social Studies	Family / Project		
10	Explore & model: Functions and representations	Read & notice: Informational text, rhetoric, and argument	Observe & question: Energy, waves, sound, and light	Ask & source: Constitution, federalism, and structure	Plan: Forces Engineering Build		
11	Guided practice: Functions and representations	Discuss & practice: Informational text, rhetoric, and argument	Investigate & model: Energy, waves, sound, and light	Map/timeline & analyze: Constitution, federalism, and structure	Build: Forces Engineering Build		
12	Apply & solve: Functions and representations	Write & apply: Informational text, rhetoric, and argument	Explain from evidence: Energy, waves, sound, and light	Compare perspectives: Constitution, federalism, and structure	Refine: Forces Engineering Build		
13	Mastery check: Functions and representations	Conference & extend: Informational text, rhetoric, and argument	Reflect & design: Energy, waves, sound, and light	Communicate & connect: Constitution, federalism, and structure	Share: Forces Engineering Build		
14	Explore & model: Systems of linear equations	Read & notice: Comparing sources, claims, and viewpoints	Observe & question: Electricity, magnetism, and technology	Ask & source: Early republic, growth, and reform	Plan: Constitutional Case Study		
15	Guided practice: Systems of linear equations	Discuss & practice: Comparing sources, claims, and viewpoints	Investigate & model: Electricity, magnetism, and technology	Map/timeline & analyze: Early republic, growth, and reform	Build: Constitutional Case Study		
16	Apply & solve: Systems of linear equations	Write & apply: Comparing sources, claims, and viewpoints	Explain from evidence: Electricity, magnetism, and technology	Compare perspectives: Early republic, growth, and reform	Refine: Constitutional Case Study		
17	Mastery check: Systems of linear equations	Conference & extend: Comparing sources, claims, and viewpoints	Reflect & design: Electricity, magnetism, and technology	Communicate & connect: Early republic, growth, and reform	Share: Constitutional Case Study		
18	Spiral review, fluency check, and applied task	Portfolio check, reading conference, and polished writing	Concept map, evidence explanation, and investigation reflection	Source analysis, map/timeline review, and discussion	Quarter showcase, goal reset, and flexible catch-up		
KEEP Which routines and resources worked well?		ADJUST Which skill needs more time or a different approach?		CELEBRATE Choose one work sample that shows meaningful growth.			

Quarter 3 | Weeks 19-27

Two four-week learning units plus a review and showcase week. Weeks 19-27.

MATH FOCUS		ELA FOCUS		SCIENCE FOCUS		SOCIAL STUDIES FOCUS	
Transformations, congruence, and similarity / Pythagorean theorem and coordinates		Narrative writing with deliberate structure / Argument writing with counterclaims		Genetics, natural selection, and evolution / Earth systems and geologic change		Expansion, sovereignty, and sectional change / Civil War	
Week	Math	English / ELA	Science	Social Studies	Family / Project		
19	Explore & model: Transformations, congruence, and similarity	Read & notice: Narrative writing with deliberate structure	Observe & question: Genetics, natural selection, and evolution	Ask & source: Expansion, sovereignty, and sectional change	Plan: Genetics Evidence Explanation		
20	Guided practice: Transformations, congruence, and similarity	Discuss & practice: Narrative writing with deliberate structure	Investigate & model: Genetics, natural selection, and evolution	Map/timeline & analyze: Expansion, sovereignty, and sectional change	Build: Genetics Evidence Explanation		
21	Apply & solve: Transformations, congruence, and similarity	Write & apply: Narrative writing with deliberate structure	Explain from evidence: Genetics, natural selection, and evolution	Compare perspectives: Expansion, sovereignty, and sectional change	Refine: Genetics Evidence Explanation		
22	Mastery check: Transformations, congruence, and similarity	Conference & extend: Narrative writing with deliberate structure	Reflect & design: Genetics, natural selection, and evolution	Communicate & connect: Expansion, sovereignty, and sectional change	Share: Genetics Evidence Explanation		
23	Explore & model: Pythagorean theorem and coordinates	Read & notice: Argument writing with counterclaims	Observe & question: Earth systems and geologic change	Ask & source: Civil War	Plan: Civil War Source Portfolio		
24	Guided practice: Pythagorean theorem and coordinates	Discuss & practice: Argument writing with counterclaims	Investigate & model: Earth systems and geologic change	Map/timeline & analyze: Civil War	Build: Civil War Source Portfolio		
25	Apply & solve: Pythagorean theorem and coordinates	Write & apply: Argument writing with counterclaims	Explain from evidence: Earth systems and geologic change	Compare perspectives: Civil War	Refine: Civil War Source Portfolio		
26	Mastery check: Pythagorean theorem and coordinates	Conference & extend: Argument writing with counterclaims	Reflect & design: Earth systems and geologic change	Communicate & connect: Civil War	Share: Civil War Source Portfolio		
27	Spiral review, fluency check, and applied task	Portfolio check, reading conference, and polished writing	Concept map, evidence explanation, and investigation reflection	Source analysis, map/timeline review, and discussion	Quarter showcase, goal reset, and flexible catch-up		
KEEP Which routines and resources worked well?		ADJUST Which skill needs more time or a different approach?		CELEBRATE Choose one work sample that shows meaningful growth.			

Quarter 4 | Weeks 28-36

Two four-week learning units plus a review and showcase week. Weeks 28-36.

MATH FOCUS		ELA FOCUS		SCIENCE FOCUS		SOCIAL STUDIES FOCUS	
Bivariate data and lines of best fit / Volume, modeling, and Algebra I readiness		Research, synthesis, and multimedia / Grammar, presentation, revision, and portfolio		Space systems and scale / Human impacts, sustainability, and design		Reconstruction and constitutional change / Historical inquiry and civic participation	
Week	Math	English / ELA	Science	Social Studies	Family / Project		
28	Explore & model: Bivariate data and lines of best fit	Read & notice: Research, synthesis, and multimedia	Observe & question: Space systems and scale	Ask & source: Reconstruction and constitutional change	Plan: Sustainable Community Proposal		
29	Guided practice: Bivariate data and lines of best fit	Discuss & practice: Research, synthesis, and multimedia	Investigate & model: Space systems and scale	Map/timeline & analyze: Reconstruction and constitutional change	Build: Sustainable Community Proposal		
30	Apply & solve: Bivariate data and lines of best fit	Write & apply: Research, synthesis, and multimedia	Explain from evidence: Space systems and scale	Compare perspectives: Reconstruction and constitutional change	Refine: Sustainable Community Proposal		
31	Mastery check: Bivariate data and lines of best fit	Conference & extend: Research, synthesis, and multimedia	Reflect & design: Space systems and scale	Communicate & connect: Reconstruction and constitutional change	Share: Sustainable Community Proposal		
32	Explore & model: Volume, modeling, and Algebra I readiness	Read & notice: Grammar, presentation, revision, and portfolio	Observe & question: Human impacts, sustainability, and design	Ask & source: Historical inquiry and civic participation	Plan: Grade 8 Capstone Presentation		
33	Guided practice: Volume, modeling, and Algebra I readiness	Discuss & practice: Grammar, presentation, revision, and portfolio	Investigate & model: Human impacts, sustainability, and design	Map/timeline & analyze: Historical inquiry and civic participation	Build: Grade 8 Capstone Presentation		
34	Apply & solve: Volume, modeling, and Algebra I readiness	Write & apply: Grammar, presentation, revision, and portfolio	Explain from evidence: Human impacts, sustainability, and design	Compare perspectives: Historical inquiry and civic participation	Refine: Grade 8 Capstone Presentation		
35	Mastery check: Volume, modeling, and Algebra I readiness	Conference & extend: Grammar, presentation, revision, and portfolio	Reflect & design: Human impacts, sustainability, and design	Communicate & connect: Historical inquiry and civic participation	Share: Grade 8 Capstone Presentation		
36	Spiral review, fluency check, and applied task	Portfolio check, reading conference, and polished writing	Concept map, evidence explanation, and investigation reflection	Source analysis, map/timeline review, and discussion	Quarter showcase, goal reset, and flexible catch-up		
KEEP Which routines and resources worked well?		ADJUST Which skill needs more time or a different approach?		CELEBRATE Choose one work sample that shows meaningful growth			

Teaching Routine, Progress Tracker, and Resources

Use this page throughout the year; print extra copies of the tracker as needed.

A SIMPLE DAILY LEARNING BLOCK

1. Warm up	5-15 min	Quick review, read-aloud, mental math, or vocabulary.
2. Teach	15-35 min	Model one clear objective with examples, text, or demonstration.
3. Practice	15-45 min	Use online skills, discussion, writing, lab work, or a printable.
4. Apply	10-35 min	Solve, explain, create, investigate, compare, or teach it back.
5. Record	2-5 min	Mark progress and save one useful piece of evidence when appropriate.

ADAPT THE PLAN TO THE LEARNER

When work is too hard: Reduce the amount, model more examples, use concrete materials, and revisit prerequisites.

When work is too easy: Compact repeated practice, ask for deeper explanations, and add authentic projects or advanced text.

For attention or stamina: Use shorter blocks, movement breaks, choice, timers, and a visible checklist.

For reading support: Read directions aloud, use audio plus print, preteach vocabulary, and accept oral responses when appropriate.

For advanced independence: Let the student plan part of the week, select resources, track data, and lead conferences.

QUARTERLY PROGRESS TRACKER

Checkpoint	Math	ELA	Science	Social Studies	Portfolio evidence	Next priority
Week 9	[] On track [] Revisit	[] On track [] Revisit	[] On track [] Revisit	[] On track [] Revisit		
Week 18	[] On track [] Revisit	[] On track [] Revisit	[] On track [] Revisit	[] On track [] Revisit		
Week 27	[] On track [] Revisit	[] On track [] Revisit	[] On track [] Revisit	[] On track [] Revisit		
Week 36	[] On track [] Revisit	[] On track [] Revisit	[] On track [] Revisit	[] On track [] Revisit		

FREE K-12 PRACTICE RESOURCES

[Free K-12 Practice home](#) | [Math practice](#) | [English / ELA practice](#) | [Science practice](#) | [Social studies practice](#) | [Printable worksheets](#)

STANDARDS AND LOCAL REQUIREMENTS

[Common Core mathematics and ELA](#) | [Next Generation Science Standards](#) | [C3 Framework for Social Studies](#)

Frameworks describe learning expectations; families should verify state-specific content, attendance, testing, recordkeeping, and graduation rules.