

Grade 10 Homeschool Plan

Build formal reasoning through geometry, chemistry, world literature, and modern global history.

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
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PLAN AT A GLANCE		HOW TO USE THIS PLAN	
Grade band	High School (9-12)	1 Preview the quarter: Skim the next nine weeks and gather books, printables, and simple materials.	
Suggested daily time	5-6 hours of academics, plus elective or world-language study	2 Teach the weekly focus: Use the topic as a learning target, then select practice at the student's level.	
Core course path	Geometry, English 2, Chemistry, Modern World History	3 Keep evidence: Save a few work samples, reading notes, lab pages, and project photos.	
Assessment rhythm	End-of-unit checks plus four quarterly reviews	4 Adjust without guilt: Repeat, shorten, reorder, or skip material when the learner's needs call for it.	
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		SOCIAL STUDIES FOCUS	
Geometry foundations and transformations / Congruence and proof		World literature and cultural context / Myth, epic, and archetype		Measurement, matter, and laboratory practice / Atomic structure and the periodic table		Global connections after 1450 / Renaissance, Reformation, and science	
Week	Math	English / ELA	Science	Social Studies	Family / Project		
1	Explore & model: Geometry foundations and transformations	Read & notice: World literature and cultural context	Observe & question: Measurement, matter, and laboratory practice	Ask & source: Global connections after 1450	Plan: Geometry Construction Portfolio		
2	Guided practice: Geometry foundations and transformations	Discuss & practice: World literature and cultural context	Investigate & model: Measurement, matter, and laboratory practice	Map/timeline & analyze: Global connections after 1450	Build: Geometry Construction Portfolio		
3	Apply & solve: Geometry foundations and transformations	Write & apply: World literature and cultural context	Explain from evidence: Measurement, matter, and laboratory practice	Compare perspectives: Global connections after 1450	Refine: Geometry Construction Portfolio		
4	Mastery check: Geometry foundations and transformations	Conference & extend: World literature and cultural context	Reflect & design: Measurement, matter, and laboratory practice	Communicate & connect: Global connections after 1450	Share: Geometry Construction Portfolio		
5	Explore & model: Congruence and proof	Read & notice: Myth, epic, and archetype	Observe & question: Atomic structure and the periodic table	Ask & source: Renaissance, Reformation, and science	Plan: Comparative Epic Study		
6	Guided practice: Congruence and proof	Discuss & practice: Myth, epic, and archetype	Investigate & model: Atomic structure and the periodic table	Map/timeline & analyze: Renaissance, Reformation, and science	Build: Comparative Epic Study		
7	Apply & solve: Congruence and proof	Write & apply: Myth, epic, and archetype	Explain from evidence: Atomic structure and the periodic table	Compare perspectives: Renaissance, Reformation, and science	Refine: Comparative Epic Study		
8	Mastery check: Congruence and proof	Conference & extend: Myth, epic, and archetype	Reflect & design: Atomic structure and the periodic table	Communicate & connect: Renaissance, Reformation, and science	Share: Comparative Epic Study		
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 Similarity and right triangles / Triangle theorems and trigonometric ratios		ELA FOCUS Comparative fiction and literary analysis / Drama and performance		SCIENCE FOCUS Bonding and molecular structure / Chemical reactions and equations		SOCIAL STUDIES FOCUS Exploration, colonization, and exchange / Absolutism, constitutionalism, Enlightenment	
Week	Math	English / ELA	Science	Social Studies	Family / Project		
10	Explore & model: Similarity and right triangles	Read & notice: Comparative fiction and literary analysis	Observe & question: Bonding and molecular structure	Ask & source: Exploration, colonization, and exchange	Plan: Periodic Pattern Investigation		
11	Guided practice: Similarity and right triangles	Discuss & practice: Comparative fiction and literary analysis	Investigate & model: Bonding and molecular structure	Map/timeline & analyze: Exploration, colonization, and exchange	Build: Periodic Pattern Investigation		
12	Apply & solve: Similarity and right triangles	Write & apply: Comparative fiction and literary analysis	Explain from evidence: Bonding and molecular structure	Compare perspectives: Exploration, colonization, and exchange	Refine: Periodic Pattern Investigation		
13	Mastery check: Similarity and right triangles	Conference & extend: Comparative fiction and literary analysis	Reflect & design: Bonding and molecular structure	Communicate & connect: Exploration, colonization, and exchange	Share: Periodic Pattern Investigation		
14	Explore & model: Triangle theorems and trigonometric ratios	Read & notice: Drama and performance	Observe & question: Chemical reactions and equations	Ask & source: Absolutism, constitutionalism, Enlightenment	Plan: Global Exchange Map		
15	Guided practice: Triangle theorems and trigonometric ratios	Discuss & practice: Drama and performance	Investigate & model: Chemical reactions and equations	Map/timeline & analyze: Absolutism, constitutionalism, Enlightenment	Build: Global Exchange Map		
16	Apply & solve: Triangle theorems and trigonometric ratios	Write & apply: Drama and performance	Explain from evidence: Chemical reactions and equations	Compare perspectives: Absolutism, constitutionalism, Enlightenment	Refine: Global Exchange Map		
17	Mastery check: Triangle theorems and trigonometric ratios	Conference & extend: Drama and performance	Reflect & design: Chemical reactions and equations	Communicate & connect: Absolutism, constitutionalism, Enlightenment	Share: Global Exchange Map		
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 Polygons and coordinate geometry / Circles		ELA FOCUS Poetry, voice, and translation / Rhetoric, argument, and global issues		SCIENCE FOCUS Moles, stoichiometry, and quantity / States of matter, gases, and solutions		SOCIAL STUDIES FOCUS Political revolutions / Industrialization, nationalism, imperialism	
Week	Math	English / ELA	Science	Social Studies	Family / Project		
19	Explore & model: Polygons and coordinate geometry	Read & notice: Poetry, voice, and translation	Observe & question: Moles, stoichiometry, and quantity	Ask & source: Political revolutions	Plan: Chemical Reaction Lab Report		
20	Guided practice: Polygons and coordinate geometry	Discuss & practice: Poetry, voice, and translation	Investigate & model: Moles, stoichiometry, and quantity	Map/timeline & analyze: Political revolutions	Build: Chemical Reaction Lab Report		
21	Apply & solve: Polygons and coordinate geometry	Write & apply: Poetry, voice, and translation	Explain from evidence: Moles, stoichiometry, and quantity	Compare perspectives: Political revolutions	Refine: Chemical Reaction Lab Report		
22	Mastery check: Polygons and coordinate geometry	Conference & extend: Poetry, voice, and translation	Reflect & design: Moles, stoichiometry, and quantity	Communicate & connect: Political revolutions	Share: Chemical Reaction Lab Report		
23	Explore & model: Circles	Read & notice: Rhetoric, argument, and global issues	Observe & question: States of matter, gases, and solutions	Ask & source: Industrialization, nationalism, imperialism	Plan: Revolutions Comparative Argument		
24	Guided practice: Circles	Discuss & practice: Rhetoric, argument, and global issues	Investigate & model: States of matter, gases, and solutions	Map/timeline & analyze: Industrialization, nationalism, imperialism	Build: Revolutions Comparative Argument		
25	Apply & solve: Circles	Write & apply: Rhetoric, argument, and global issues	Explain from evidence: States of matter, gases, and solutions	Compare perspectives: Industrialization, nationalism, imperialism	Refine: Revolutions Comparative Argument		
26	Mastery check: Circles	Conference & extend: Rhetoric, argument, and global issues	Reflect & design: States of matter, gases, and solutions	Communicate & connect: Industrialization, nationalism, imperialism	Share: Revolutions Comparative Argument		
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	
Area, surface area, and volume / Modeling, probability, and geometry synthesis		Research and comparative synthesis / Extended world literature study and portfolio		Energy, kinetics, equilibrium, acids, bases / Applied chemistry and capstone		World wars, depression, decolonization / Cold War, globalization, and current issues	
Week	Math	English / ELA	Science	Social Studies	Family / Project		
28	Explore & model: Area, surface area, and volume	Read & notice: Research and comparative synthesis	Observe & question: Energy, kinetics, equilibrium, acids, bases	Ask & source: World wars, depression, decolonization	Plan: Sustainable Chemistry Challenge		
29	Guided practice: Area, surface area, and volume	Discuss & practice: Research and comparative synthesis	Investigate & model: Energy, kinetics, equilibrium, acids, bases	Map/timeline & analyze: World wars, depression, decolonization	Build: Sustainable Chemistry Challenge		
30	Apply & solve: Area, surface area, and volume	Write & apply: Research and comparative synthesis	Explain from evidence: Energy, kinetics, equilibrium, acids, bases	Compare perspectives: World wars, depression, decolonization	Refine: Sustainable Chemistry Challenge		
31	Mastery check: Area, surface area, and volume	Conference & extend: Research and comparative synthesis	Reflect & design: Energy, kinetics, equilibrium, acids, bases	Communicate & connect: World wars, depression, decolonization	Share: Sustainable Chemistry Challenge		
32	Explore & model: Modeling, probability, and geometry synthesis	Read & notice: Extended world literature study and portfolio	Observe & question: Applied chemistry and capstone	Ask & source: Cold War, globalization, and current issues	Plan: Grade 10 Global Capstone		
33	Guided practice: Modeling, probability, and geometry synthesis	Discuss & practice: Extended world literature study and portfolio	Investigate & model: Applied chemistry and capstone	Map/timeline & analyze: Cold War, globalization, and current issues	Build: Grade 10 Global Capstone		
34	Apply & solve: Modeling, probability, and geometry synthesis	Write & apply: Extended world literature study and portfolio	Explain from evidence: Applied chemistry and capstone	Compare perspectives: Cold War, globalization, and current issues	Refine: Grade 10 Global Capstone		
35	Mastery check: Modeling, probability, and geometry synthesis	Conference & extend: Extended world literature study and portfolio	Reflect & design: Applied chemistry and capstone	Communicate & connect: Cold War, globalization, and current issues	Share: Grade 10 Global Capstone		
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.