



**HOVERS ACADEMY**  
Experience Progress

# STAAR EXAM PREPARATION SYLLABUS

**GRADES 3 TO 8 (TEXAS)**



**COVERS**



**MATHEMATICS**



**SCIENCE**



**ENGLISH LANGUAGE  
ARTS AND READING  
(ELAR)**

**GET IN TOUCH**



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# STAAR EXAM

Preparation Syllabus – Grades 3 to 8  
(Texas)

## MATH

GRADE 3

- Place value up to 100,000
- Addition and subtraction within 1,000
- Multiplication and division facts (up to  $10 \times 10$ )
- Fractions (unit fractions, part of a whole)
- Time, money, and measurement
- Data representation (bar graphs, pictographs)
- Basic geometry (2D shapes, area, perimeter)



# SCIENCE

- ✓ Properties of matter
- ✓ Force, motion, and energy
- ✓ Earth and space (soil, weather, sun, moon)
- ✓ Living organisms and life cycles
- ✓ Environmental changes

GRADE 3

# ELAR

- ✓ Reading comprehension (fiction, nonfiction, poetry)
- ✓ Author's purpose and craft
- ✓ Context clues and vocabulary development
- ✓ Beginning grammar: nouns, verbs, punctuation
- ✓ Writing: personal narratives, descriptive essays
- ✓ Spelling and phonics rules

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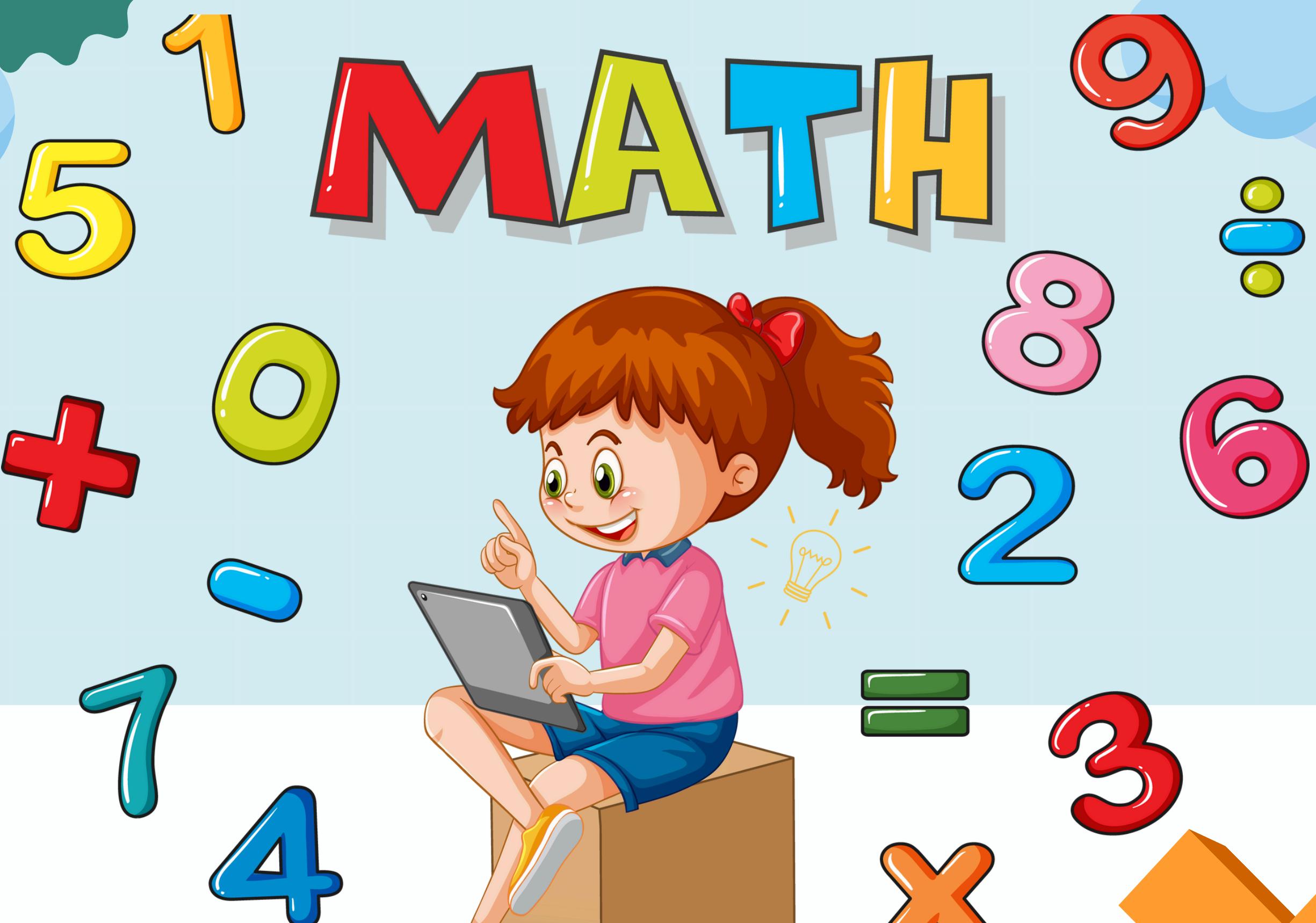
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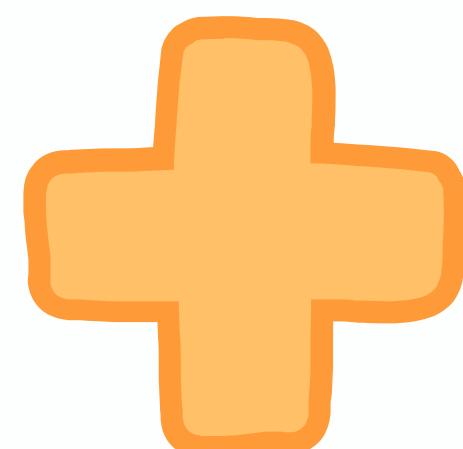
# MATH

GRADE 4

Practice makes you better at math!



- Place value to 1,000,000
- Multi-digit multiplication and division
- Fractions and decimals (equivalence, comparing)
- Area and perimeter of rectangles
- Data (line plots, bar graphs)
- Geometry: symmetry, angles



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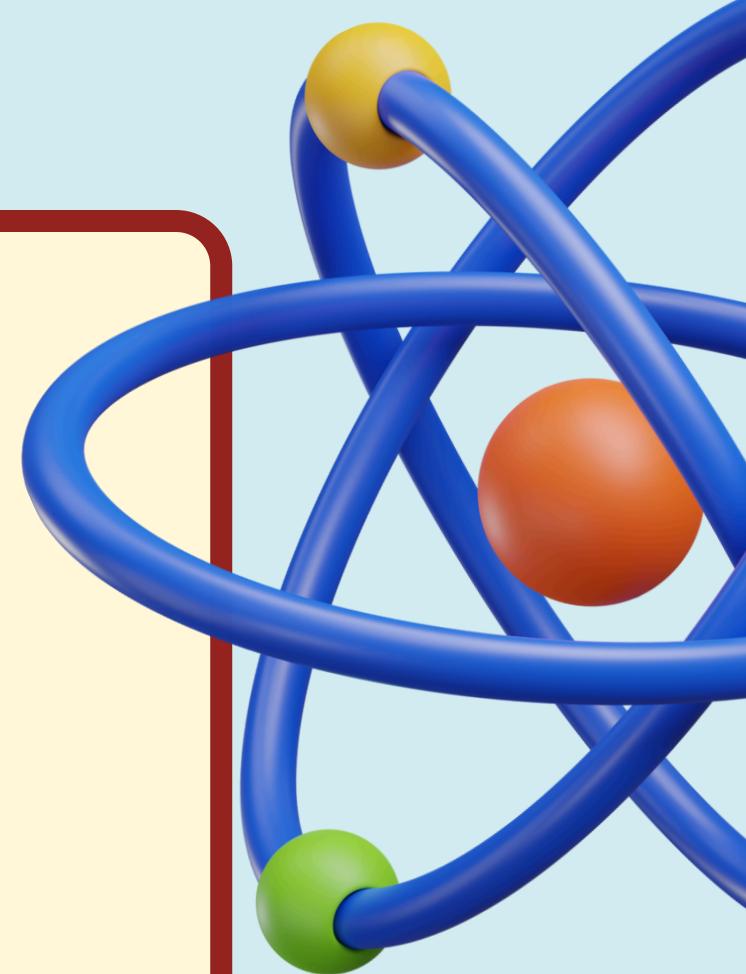
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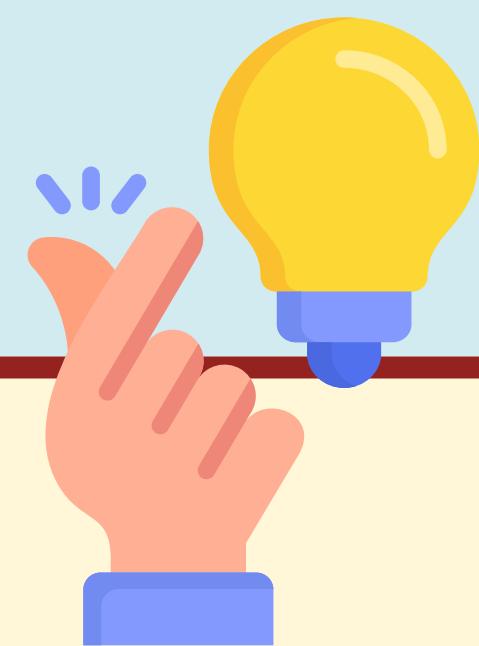
GRADE 4

# Science

- Forms of energy (light, thermal, sound)
- Electricity and magnetism
- Weathering, erosion, and soil formation
- Renewable and nonrenewable resources
- Ecosystems and adaptations



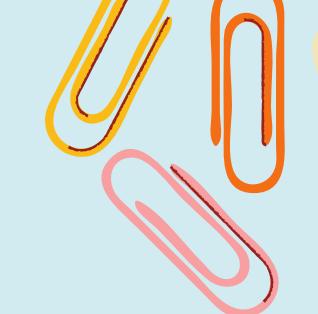
# ELAR



- Main idea, theme, inference
- Literary elements (plot, setting, characters)
- Grammar: subject-verb agreement, complex sentences
- Writing: expository essays, revising/editing
- Vocabulary in context, synonyms/antonyms



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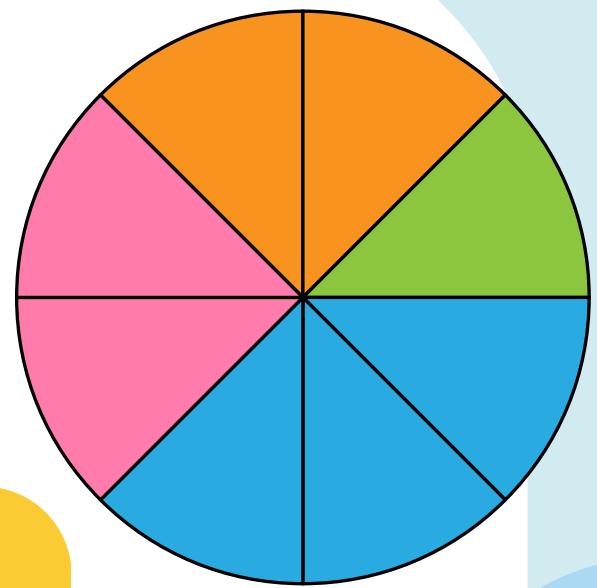




$\frac{1}{3}$

# MATH

BELIEVE IN YOUR MATH POWER!



- Operations with whole numbers and decimals
- Fraction operations (add/subtract/multiply)
- Volume and measurement conversions
- Coordinate planes and graphing
- Multi-step word problems

$$\begin{aligned}\frac{x}{3} - 8 &= 6 \\ \frac{x}{3} - 8 + 8 &= 6 + 8 \\ \frac{x}{3} &= 14\end{aligned}$$

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GRADE 5



GRADE 5

# Science

- Physical properties of matter
- Mixtures and solutions
- Forces and motion
- Solar system, water cycle
- Ecosystems and food webs
- Scientific investigation skills



- Summarization, text features
- Genre identification: myths, drama, biographies
- Editing: run-ons, fragments, proper usage
- Writing: persuasive and informational essays
- Citing textual evidence

ELAR



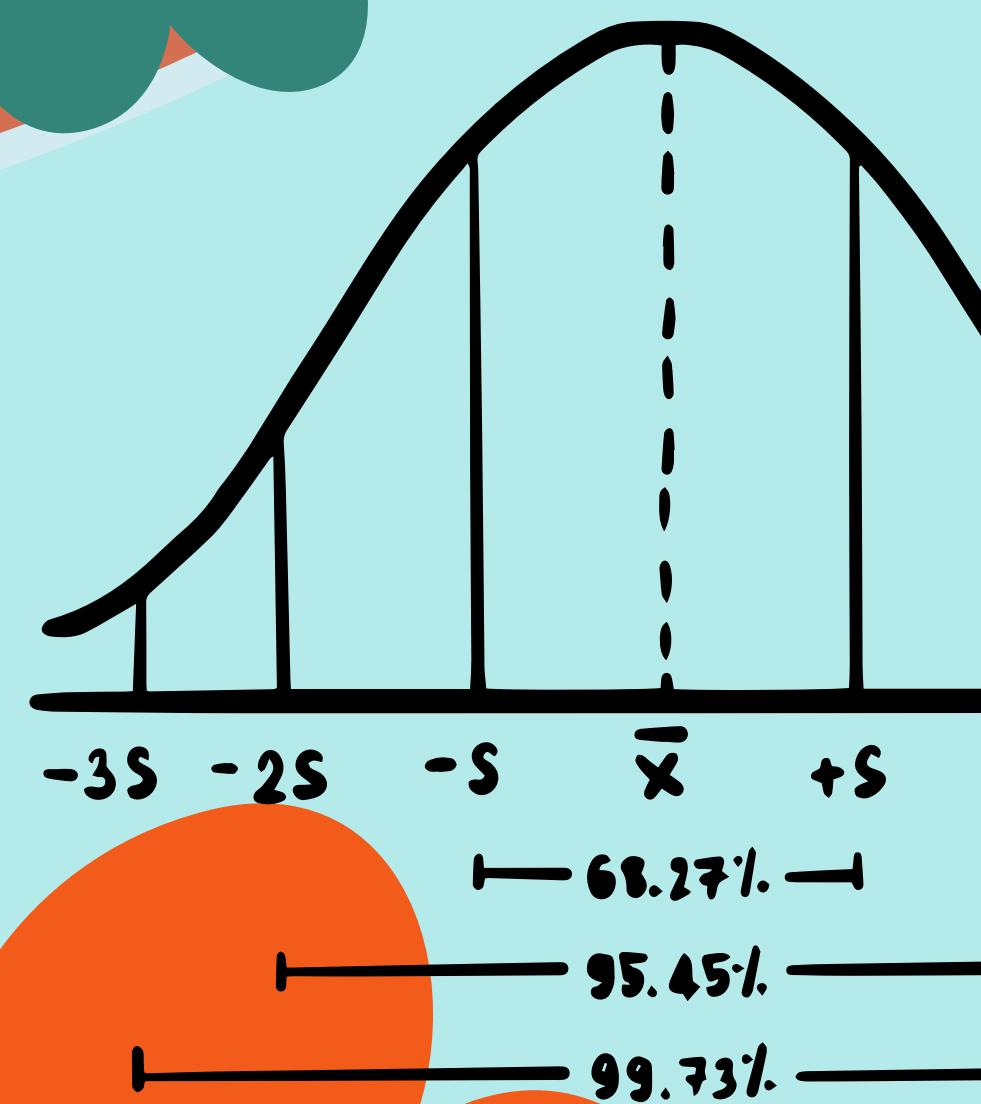
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GRADE 6

$$b = \sqrt{a^2 + c^2}$$

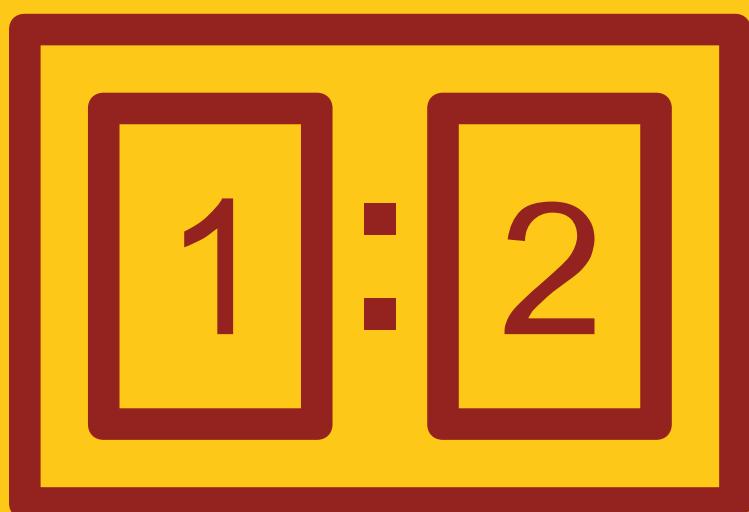
# Math



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- Ratios and proportional relationships
- Operations with fractions and decimals
- Integers and number lines
- Expressions and equations
- Area, surface area, volume
- Data statistics (mean, median, range)



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# Science

- Matter and density
- Energy transformations
- Earth materials and space systems
- Cells and body systems (intro)
- Weather, climate, water cycle

# ELAR

- Complex comprehension (inference, tone, irony)
- Argument and expository text structures
- Sentence structure, prepositions, conjunctions
- Academic vocabulary
- Writing: argument and explanatory writing

S+V+O





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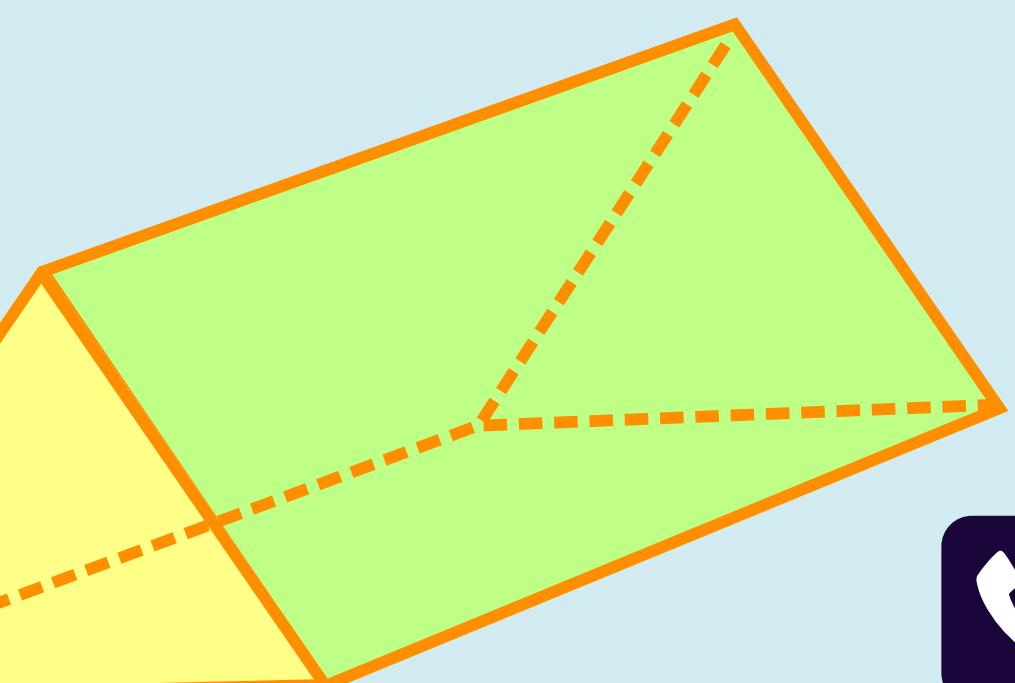
GRADE 7

# Math

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$



- Proportional relationships and percent problems
- Linear expressions and equations
- Surface area and volume of prisms/pyramids
- Data analysis and probability
- Integer operations and absolute value



**FOR MORE INFO**

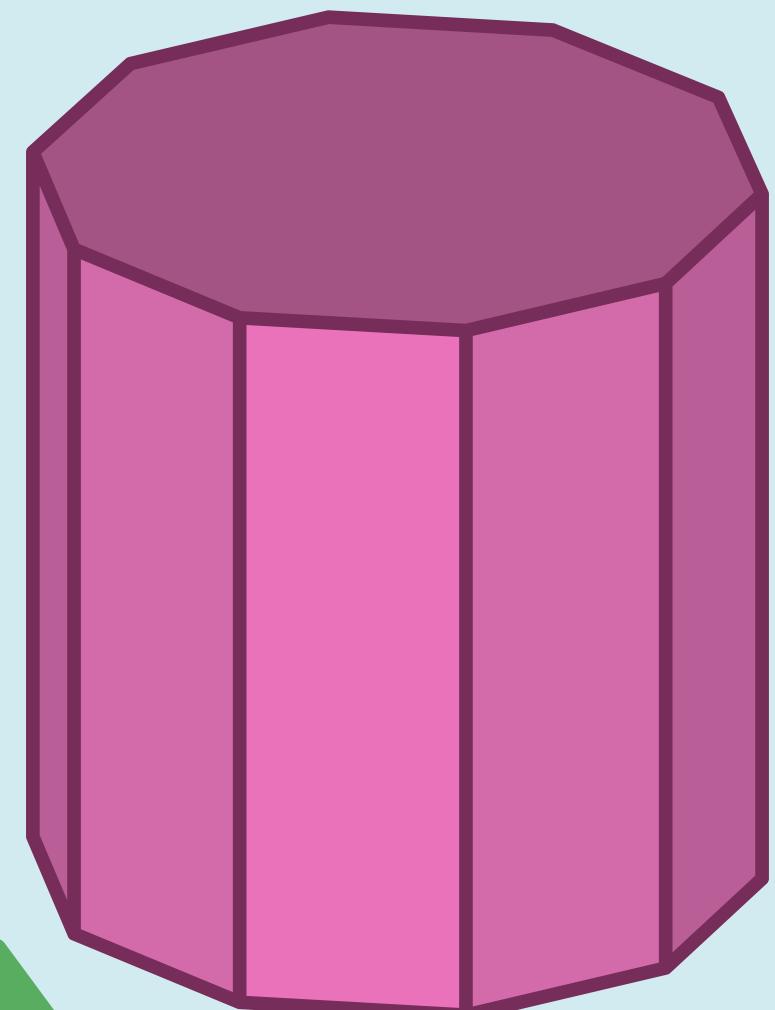


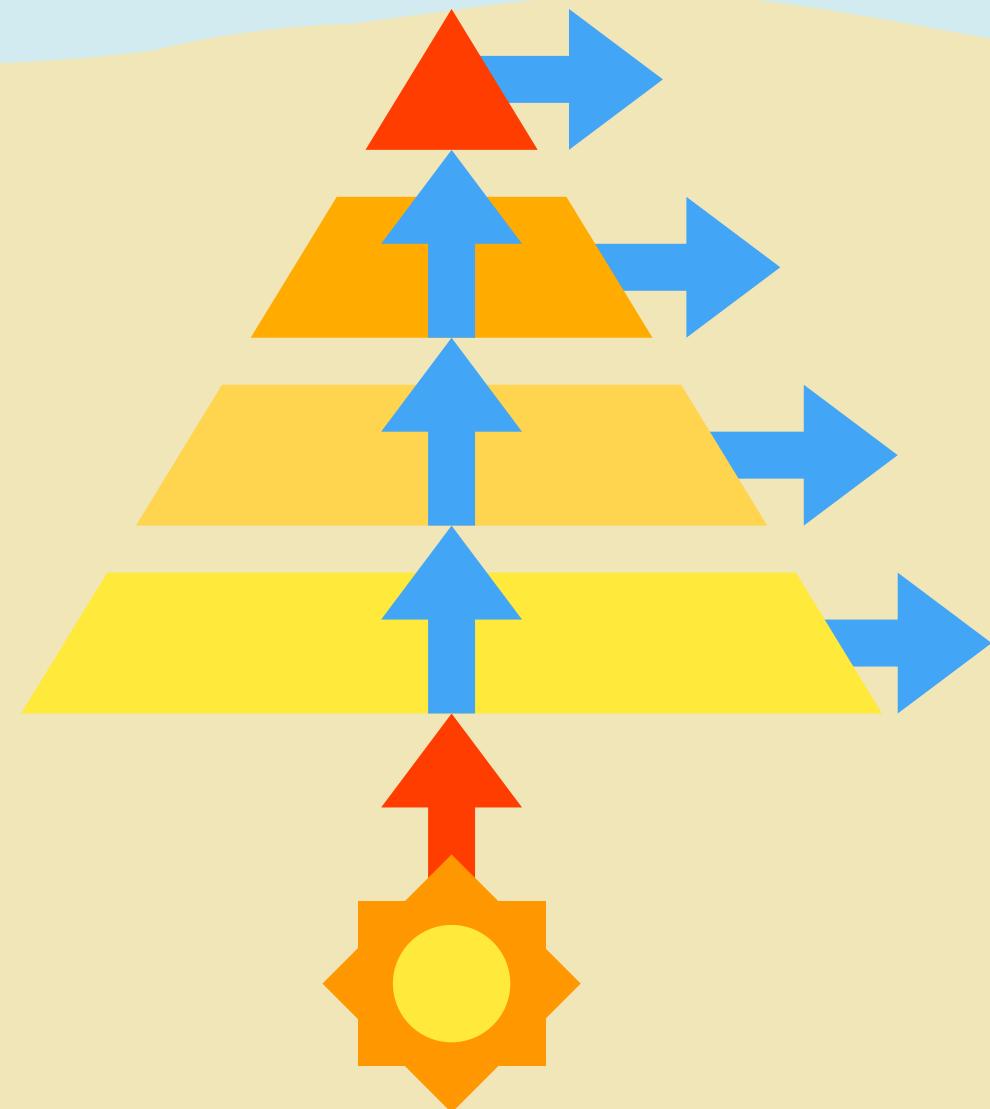
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GRADE 7

# Science



## ELAR

- Analyze persuasive techniques
- Text evidence and annotation skills
- Figurative language, connotation, denotation
- Writing: literary and argumentative compositions
- Grammar: clauses, punctuation, usage

- Cell theory and functions
- Human body systems and genetics
- Energy flow in ecosystems
- Natural events and catastrophes
- Scientific investigation and technology

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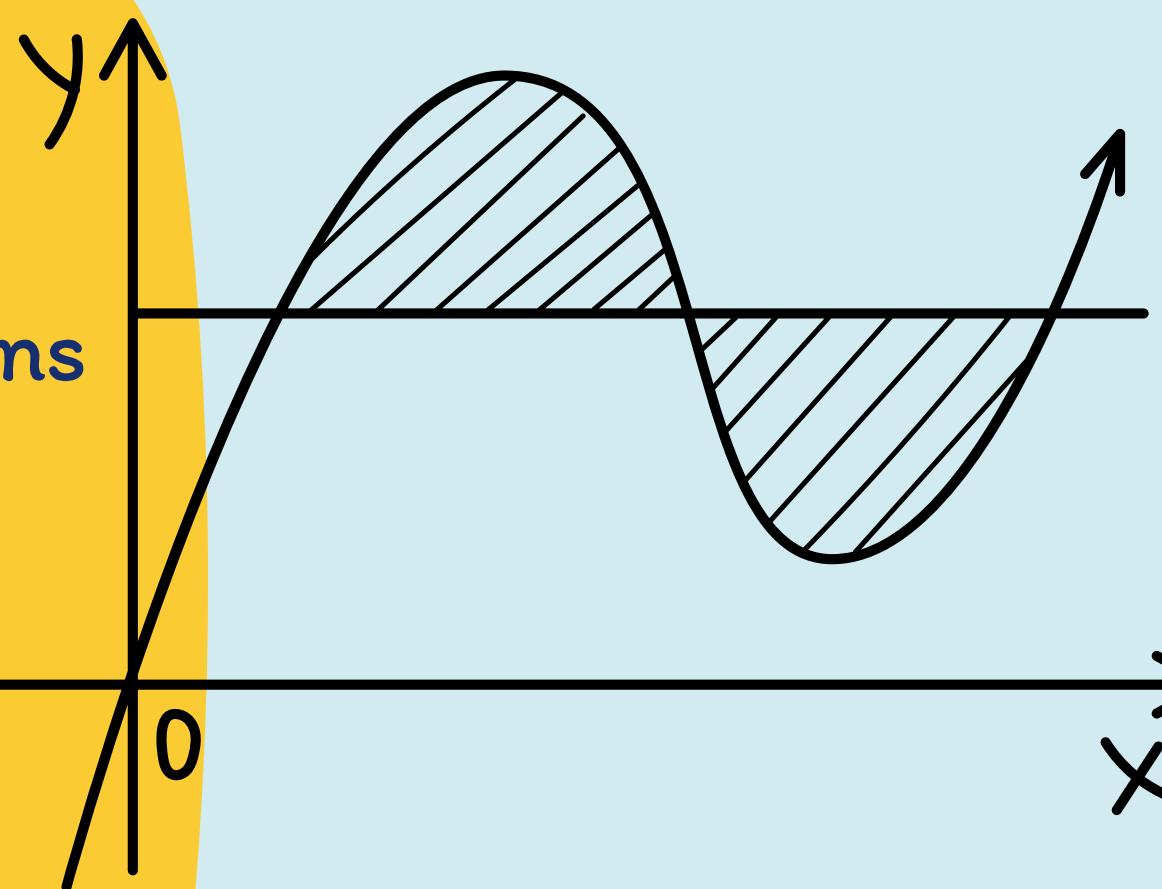
GRADE 8



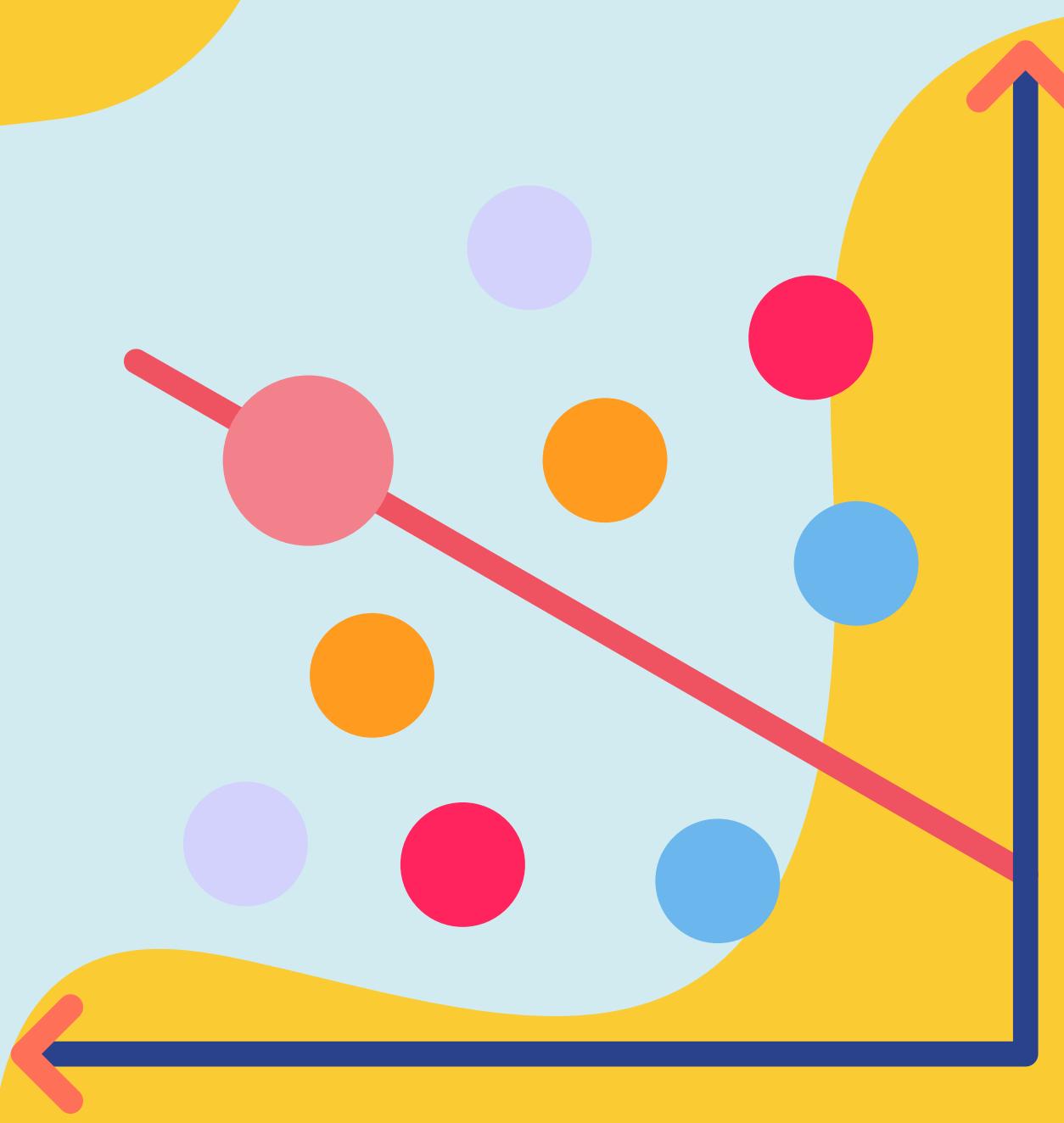
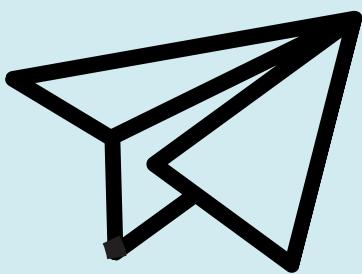
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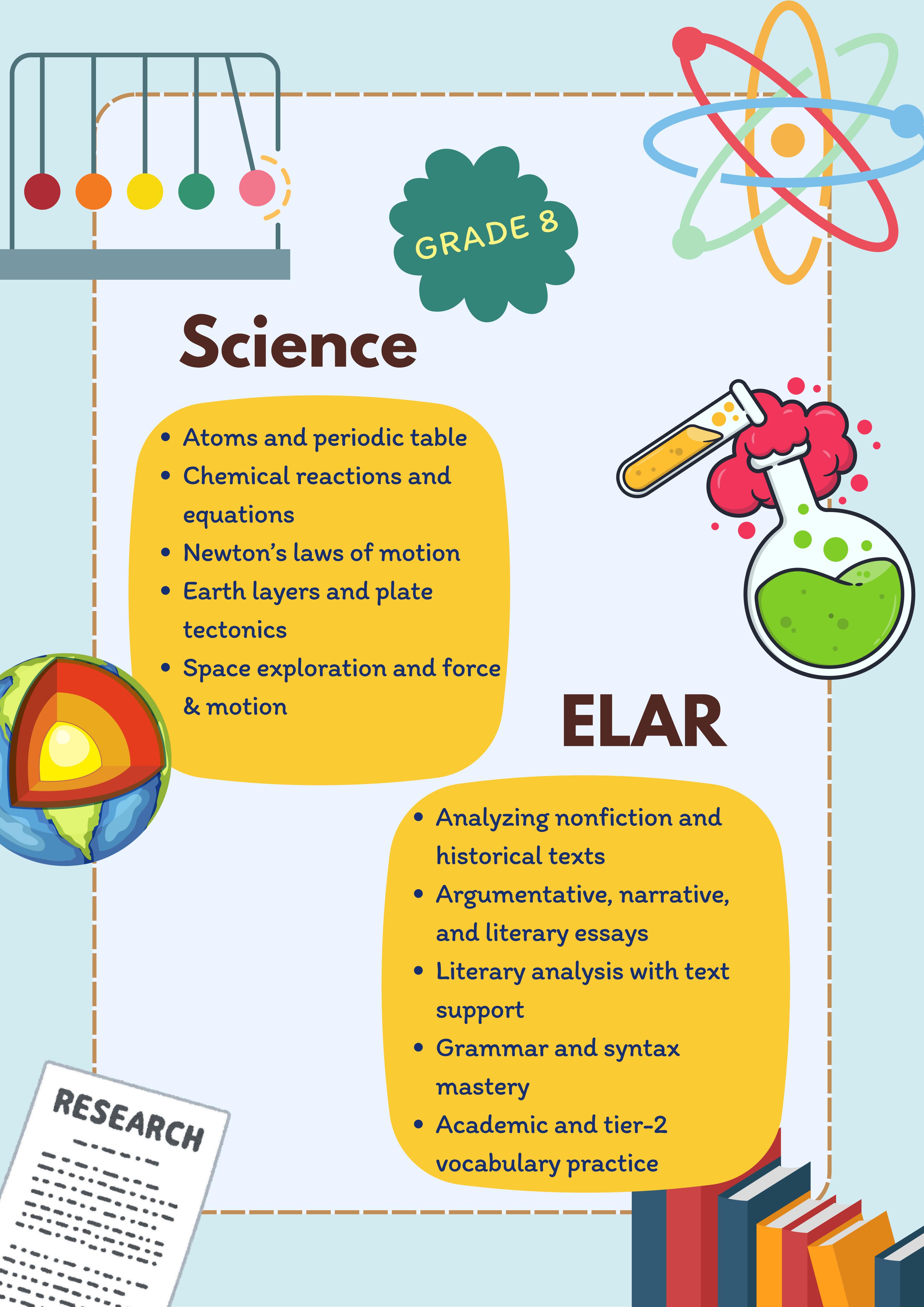
# Math

- Functions and linear relationships
- Solving systems of equations
- Pythagorean Theorem and transformations
- Scatterplots and data correlation
- Real numbers and exponents



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- Atoms and periodic table
- Chemical reactions and equations
- Newton's laws of motion
- Earth layers and plate tectonics
- Space exploration and force & motion

GRADE 8



ELAR

- Analyzing nonfiction and historical texts
- Argumentative, narrative, and literary essays
- Literary analysis with text support
- Grammar and syntax mastery
- Academic and tier-2 vocabulary practice



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# Key Benefits

## Preparation Tips (Grades 3–8):

Practice with STAAR-released questions

Weekly writing prompts and peer reviews

Vocabulary journals

Math drills and problem-solving strategy sessions

Science experiment logs and visual organizers

This syllabus aligns with Texas Essential Knowledge and Skills (TEKS) standards and STAAR blueprints for each grade and subject.

## For More Info



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