IXL Summer Adventures

RISING 8TH GRADERS

Sprinkle in some learning this summer with IXL Summer Adventures! Each set of skills has a fun theme that will inspire you to explore topics in math, language arts, science, and social studies.

Tip: To quickly find each skill, type the three-character skill ID into the search bar at the top left of the page in IXL!

Day 1	**Where to?**	Maps with fractional distances **(KXP)**
		Formatting street addresses **(UUS)**
		Select parts of a topographic map **(EH7)**
		Identify and select countries of South America **(FJL)**
Day 2	**Solving problems**	Estimate to solve word problems **(MQ6)**
		Multi-step word problems with positive rational numbers **(JVU)**
		Match problems with their solutions **(BHK)**
		The Constitutional Convention **(FNH)**
Day 3	**Quote the author**	Identify plagiarism **(5B7)**
		Match the quotations with their themes **(XJK)**
		Identify supporting details in literary texts **(W8V)**
		Source analysis: the Gettysburg Address **(MT2)**

Day 4

Exponents and experiments

- Solve equations with variable exponents **(LSA)**
- Understanding negative exponents **(YBB)**
- The process of scientific inquiry **(WQJ)**
- Understand an experimental protocol about diffusion **(8E2)**

Day 5

Elementary, my dear

- Commas with nonrestrictive elements **(RAL)**
- What are atoms and chemical elements? **(VZE)**

Activity: Pick an element from the periodic table. Research it online or in a book. Where is it found in nature? What do people use it for? Can you find it in your house?

Day 6

Economic solutions

- Multi-step problems with percents **(ZHX)**
- Simple interest **(E7Y)**
- What is economics? **(GPQ)**
- What is a market? **(8ED)**

Day 7

Don't be so negative

- Positive and negative connotation **(45Q)**
- Add integers using number lines **(A63)**
- Add three or more integers **(PBC)**
- Evaluate numerical expressions involving integers **(7YN)**

Day 8

Punnett squares and circles

- Complete and interpret Punnett squares **(SHF)**
- Use Punnett squares to calculate probabilities of offspring types **(K54)**
- Circles: word problems **(P56)**
- Semicircles: calculate area, perimeter, radius, and diameter **(SMW)**

Day 9

Are they the same?

- Identify equivalent linear expressions using algebra tiles **(38V)**
- Identify equivalent linear expressions I **(DRB)**
- Analogies **(HJQ)**
- Determine the meaning of words using synonyms in context **(R5L)**

Day 10

Find your purpose

- Identify author's purpose **(H9H)**
- Identify appeals to ethos, pathos, and logos in advertisements **(7BT)**

Activity: Find examples of ethos, pathos, and logos in advertisements in magazines, newspapers, or online.

Day 11

Rational rationale

- Put rational numbers in order **(28Y)**
- Add and subtract rational numbers **(GKU)**
- Choose evidence to support a claim **(5GN)**
- Classify logical fallacies **(GFC)**

Day 12 — Claim your independence

- Identify independent and dependent events **(9M6)**
- Probability of independent and dependent events **(NED)**
- The Revolutionary War: struggle for independence **(L5C)**
- Source analysis: the Declaration of Independence **(25C)**

Day 13 — Greek vacation

- Classical Athens: geography and society **(UWZ)**
- Classical Athens: government and culture **(GHS)**
- Use words as clues to the meanings of Greek and Latin roots **(MCB)**
- Pythagorean theorem: find the length of the hypotenuse **(7ZL)**

Day 14 — Figurative figures

- Interpret figures of speech **(D9X)**
- Interpret the meaning of an allusion from its source **(VNX)**
- Similar and congruent figures **(U85)**
- Side lengths and angle measures of similar figures **(79Y)**

Day 15 — It's just a formality

- Which sentence is more formal? **(ZXT)**
- Compare two texts with different genres **(W7Z)**

Activity: Think about an important event from your life. Then, write two different accounts of the event: one as a newspaper article, and one as a diary entry or letter to a friend.

Day 16	Once in a blue moon	Identify an outlier **(G95)**
		Outliers in scatter plots **(RP8)**
		Identify phases of the Moon **(7L5)**
		Lunar eclipses **(4V8)**
Day 17	Know your rights	Pythagorean theorem: find the missing leg length **(Y9C)**
		Converse of the Pythagorean theorem: is it a right triangle? **(EQZ)**
		The Bill of Rights **(NA5)**
		Rights and responsibilities of active citizenship **(FVG)**
Day 18	Commas and colonies	Commas with compound and complex sentences **(U65)**
		Use semicolons and commas to separate clauses **(VQC)**
		Life as a colonist **(PQL)**
		New England Colonies: founding and government **(42N)**
Day 19	Transformations and transportation	Identify reflections, rotations, and translations **(7MB)**
		Translations: graph the image **(XUS)**
		Industrial and Transportation Revolutions **(DKM)**
		Industrialization in the Gilded Age **(ZFA)**

Day 20

Scale it down

- Scale drawings: word problems **(84H)**
- Scale drawings: scale factor word problems **(KCM)**

Activity: Pick a room in your home and make a scale drawing. Use a separate piece of paper to cut out scale pieces of furniture. Use your model to experiment with rearranging the room!