IXL Summer Adventures

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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 **(JVU)**
- Match problems with their solutions **(BHK)**
- The Articles of Confederation **(8X4)**

Day 3 — Quote the author

- Match the quotations with their themes **(XJK)**
- Compare passages for tone **(6RG)**
- Identify supporting details in literary texts **(W8V)**
- Source analysis: the Gettysburg address **(MT2)**

IXL

Day 4 — Let's experiment

- Experimental probability **(9AA)**
- Make predictions using experimental probability **(WP6)**
- Identify steps of the scientific method **(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)**

IXL

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)**
- Compare and contrast **(G7X)**
- Compare information from two texts **(UYD)**

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)**

IXL

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)**
- Analyze the effects of figures of speech on meaning and tone **(R8B)**
- 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.

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Day 16 — Once in a blue moon

- Identify an outlier **(G95)**
- Outliers in scatter plots **(RP8)**
- Analyze models of the Earth-Sun-Moon system **(6D7)**
- Identify phases of the Moon **(7L5)**

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

- Describe a sequence of transformations **(XPK)**
- Translations: graph the image **(XUS)**
- Industrial and Transportation Revolutions **(DKM)**
- Industrialization in the Gilded Age **(ZFA)**

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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!