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GUIDE**

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**ISSUE DATES** 8/25 | 9/22 | 10/20 | 11/17 | 12/15 | 1/19 | 2/16 | 3/16 | 4/13 | 5/11

## Welcome Back!

We are so excited for you to dive into your first issue of the school year! Kick off a fun, science-filled year with these three simple steps.



Warmly,

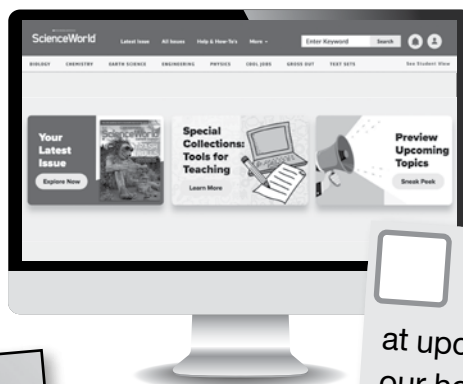
**Patricia Janes**

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scienceworld@scholastic.com



### STEP 1

Log in to **scienceworld.scholastic.com**. Then enter your one-time access code.



### STEP 2

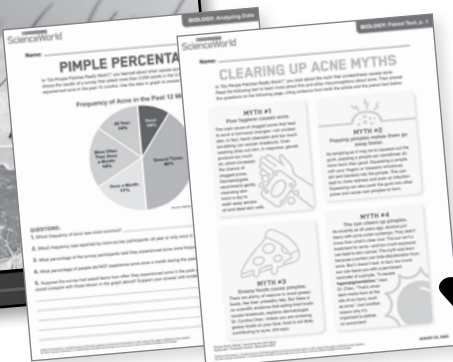
Get a sneak peek at upcoming stories on our home page.



### STEP 3

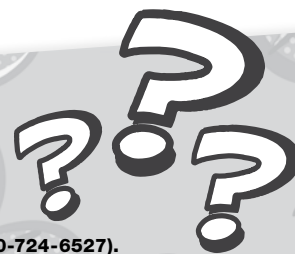
Ignite learning with our activities, games, and videos.

TEAM 1		TEAM 2	
0		0	
Biology	Chemistry	Physics	Earth Science
10	10	10	10
20	20	20	20
30	30	30	30
40	40	40	40















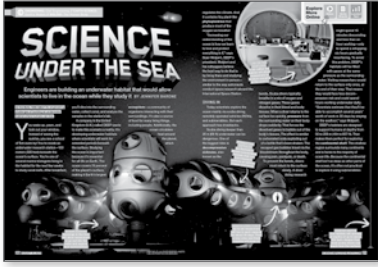



Turn to **PAGE 4** for our **10-QUESTION QUIZ**, to be paired with our **SCIENCE NEWS** section!

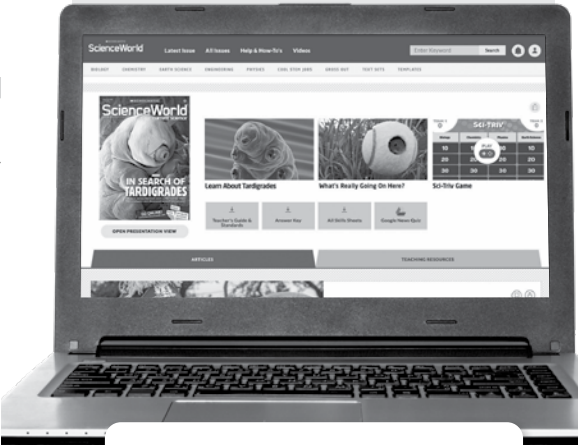
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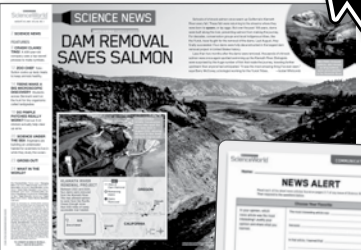
# Issue at a Glance

Feature Articles	Objectives	Standards*	Online Skills Sheets	More Online Resources
<b>Crash! Clang! Ting!</b> p. 8 	Investigate how the characteristics of an instrument affect the sounds it makes.	<b>NEXT GENERATION SCIENCE STANDARDS</b> <b>PRACTICE:</b> Planning and Carrying Out Investigations <b>CROSSCUTTING CONCEPT:</b> Cause and Effect <b>CORE IDEAS:</b> PS1.A: Structure and Properties of Matter; PS4.A: Wave Properties; ETS1.C: Optimizing the Design Solution  ----- <b>CCSS ELA:</b> Literacy in Science: 4	<b>1 Assess:</b> Check for Understanding <b>2 Scientific Vocabulary:</b> Word Connection <b>3 Investigate:</b> Sound Test	 <b>Video:</b> Explore the properties of sound waves.   <b>With Every Article</b>   <b>Text-to-Speech</b>   <b>Check for Understanding</b>   <b>Lesson Plan</b>   <b>Learning Journey Slide Deck</b>
<b>Teens Make a BIG Microscopic Discovery</b> p. 14 	Ask questions about a microscopic organism and explain how teens helped discover new species.	<b>NEXT GENERATION SCIENCE STANDARDS</b> <b>PRACTICE:</b> Asking Questions <b>CROSSCUTTING CONCEPT:</b> Scale, Proportion, and Quantity <b>CORE IDEAS:</b> LS1.A: Structure and Function; LS4.A: Common Ancestry and Diversity; ETS2.B: STEM and Society  ----- <b>CCSS ELA:</b> Reading Informational Text: 7	<b>1 Assess:</b> Check for Understanding <b>2 Analyze Numerical Data:</b> Visualizing Tiny Things <b>3 Make Observations:</b> Collect Data Outdoors	 <b>Video:</b> Peer into the microscopic life of tardigrades.   <b>Check for Understanding</b>
<b>Do Pimple Patches Really Work?</b> p. 18 	Explain how pimple patches help treat acne.	<b>NEXT GENERATION SCIENCE STANDARDS</b> <b>PRACTICE:</b> Constructing Explanations <b>CROSSCUTTING CONCEPT:</b> Cause and Effect <b>CORE IDEAS:</b> LS1.A: Structure and Function; PS1.A: Structure and Properties of Matter; ETS1.A: Defining Engineering Problems  ----- <b>CCSS ELA:</b> Reading Informational Text: 9	<b>1 Assess:</b> Check for Understanding <b>2 Interpret a Circle Graph:</b> Pimple Percentages <b>3 Paired Text:</b> Clearing Up Acne Myths	 <b>Video:</b> Learn all about your amazing skin.   <b>Lesson Plan</b>   <b>Learning Journey Slide Deck</b>
<b>Science Under the Sea</b> p. 20 	Explain how and why engineers are designing an underwater laboratory that scientists will use to study the ocean.	<b>NEXT GENERATION SCIENCE STANDARDS</b> <b>PRACTICE:</b> Communicating Information <b>CROSSCUTTING CONCEPT:</b> Structure and Function <b>CORE IDEAS:</b> ESS2.C: Earth's Waters; ESS3.A: Natural Resources; LS1.A: Structure and Function; ETS1.A: Defining Problems; ETS1.B: Developing Solutions  ----- <b>CCSS ELA:</b> Reading Informational Text: 2	<b>1 Assess:</b> Check for Understanding <b>2 Analyze a Diagram:</b> Layers of the Ocean <b>3 Plan and Investigate:</b> Bubbling Up	 <b>Video:</b> Discover the world's oceans.

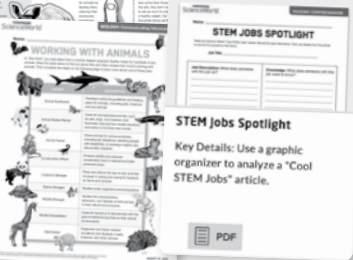
Assessments are available as Google Quizzes!



## More Online Materials!



### Science News Dive into the latest news.



### Cool STEM Jobs Explore and experience a STEM career.

Name: \_\_\_\_\_

# SCIENCE NEWS

**DIRECTIONS:** Read the “Science News” section on pages 2–7.

Then test your knowledge, filling in the letters next to the correct answers.

**1. Every fall, salmon swim upstream to spawn. What does *spawn* mean?**

- (A) to lay eggs
- (B) to hide from predators
- (C) to search for food
- (D) to group together

**2. Which statement about the Klamath River dam removal project is TRUE?**

- (A) Between 2022 and 2024, four dams were fully removed from the river.
- (B) It is the largest dam removal project in U.S. history.
- (C) Conservation groups and local Indigenous tribes fought for the removal of dams along the Klamath River for decades.
- (D) all of the above

**3. Why do scientists think the exoplanet K2-18b might be home to alien life?**

- (A) It's located about 730 trillion miles from Earth.
- (B) Its atmosphere appears to contain high levels of dimethyl sulfide.
- (C) The James Webb Space Telescope captured images of plankton in its oceans.
- (D) all of the above

**4. When used heavily, acetaminophen can damage which part of the body?**

- (A) eyes
- (B) brain
- (C) lungs
- (D) liver

**5. Why does the company Colossal Biosciences claim to have revived extinct dire wolves?**

- (A) It discovered a small population of dire wolves in the Arctic.
- (B) It bred gray wolf pups whose DNA was edited to have some dire wolf traits.
- (C) It re-created the entire dire wolf genome.
- (D) It released a pack of dire wolves into the wild.

**6. What part of the cell contains DNA?**

- (A) cell membrane
- (B) mitochondria
- (C) nucleus
- (D) vacuole

**7. How is a torpedo bat different from a standard baseball bat?**

- (A) A torpedo bat is 42 inches long, while a standard bat is 44 inches long.
- (B) A torpedo bat's mass is concentrated in the middle of its barrel, while a standard bat's mass is evenly distributed.
- (C) A torpedo bat is hollow, while a standard bat is solid all the way through.
- (D) A torpedo bat is illegal in Major League Baseball, while a standard bat is permitted.

**8. Which of the following statements about Red Dye No. 3 is TRUE?**

- (A) It's only found in candy.
- (B) It's been proven that low doses cause liver cancer in humans.
- (C) The U.S. Food and Drug Administration approved its use in January 2025.
- (D) It's synthetic, or lab-made.

**9. About how many more products contain Red Dye No. 40 than Red Dye No. 3?**

- (A) 20,000
- (B) 30,000
- (C) 40,000
- (D) 50,000

**10. Johannes Gutenberg invented the movable-type printing press \_\_\_\_\_ years ago.**

- (A) 178
- (B) 585
- (C) 900
- (D) 1,157

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