STEM Cases:
Real-world problems, real-time data

Gizmos

Give high school students the opportunity to act like scientists with STEM Cases: award-winning, research-proven, interactive case studies in the Gizmos library.

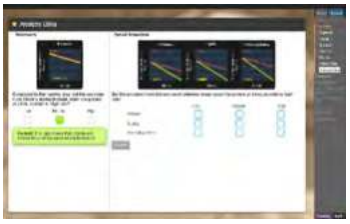
Inside a STEM Case

STEM Cases engage students to become active learners by presenting a scenario that puts them in the role of STEM professionals tasked with solving a real-world problem. For example, in the **Enzymes Case**, students play veterinary technicians tasked with saving a Great Dane called Claire that has lost weight despite eating normally. During each Case, students learn the scientific concepts and use critical thinking and apply scientific practices as follows:

1. Learn the science

2. Collect data

3. Analyze and interpret data



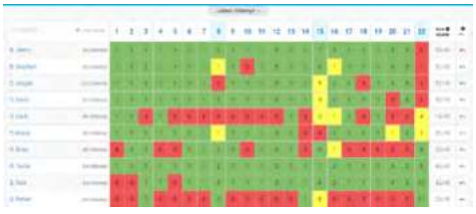
4. Form a hypothesis

5. Test the hypothesis

6. Communicate findings

Formative assessments and real-time data

Assessments (15-25 per case) report student achievement and progress in real time as a "heatmap," giving teachers the ability to quickly address problem areas and differentiate instruction. STEM Cases are aligned to state/provincial standards and help prepare students for modern interactive assessments. Research from the University of Georgia found that replacing just three traditional classes with STEM Cases elicited significant learning gains.



> *"**Students like that the information is put into a real-world scenario** and they are proud of themselves when they master the content in order to solve the case. I see real growth in the students' technical writing skills as they fill out their case summary reports."* —Dr. Megan Faliero, Biology Teacher, Livermore High School, CA

STEM Case topics: Animal Group Behavior, Diffusion, Enzymes, Homeostasis, Protein Synthesis and more! Check out our growing collection. STEM Cases are available for elementary through high school, including AP courses.