

Hands-on Science Designed for Inquiry- Driven Classrooms

Twig® Science is built around hands-on investigation, scientific inquiry, and student sensemaking. Students explore real-world phenomena through experiments, engineering challenges, collaborative discussion, and evidence-based reasoning. Teachers are supported to guide learning and help students connect observations to scientific concepts.

Students

- Conduct investigations and experiments
- Engage in scientific discourse and collaboration
- Build models and engineering solutions
- Analyze evidence and explain thinking

Teachers

- Facilitate investigations and discussion
- Guide scientific sensemaking
- Support collaborative inquiry
- Monitor progress and understanding

Digital Support

Digital resources are used strategically to support inquiry and bring complex scientific concepts to life. They help teachers:

- Visualize scientific phenomena
- Model scientific concepts
- Monitor understanding through formative assessment
- Facilitate classroom discussion
- Support instructional pacing



How Learning Happens

Investigation + Scientific Discourse + Engineering Design + Digital Visualization

Twig Science combines hands-on investigations, collaborative inquiry, and scientific discourse to help students make sense of the world around them. Purposeful digital resources support visualization and understanding, while experimentation, discussion, and discovery remain at the heart of the learning experience.

Flexible Classroom Implementation

Twig Science is designed to support a wide range of instructional models while keeping inquiry and investigation at the center of science learning. Teachers determine how and when digital resources are incorporated, using them to enhance instruction rather than drive it.

Short, purposeful videos and visualizations can be teacher-led to enrich investigations and discussions.

Supported implementations include:

- Whole-group investigations
- Collaborative science learning
- Hands-on experimentation
- Balanced print + digital implementation
- Teacher-guided inquiry models
- Students regularly engage in experiments, investigations, engineering challenges, and scientific discussions that extend learning beyond devices

Why Districts Choose Twig Science

Districts choose Twig Science because it combines rigorous, standards-aligned science instruction with engaging hands-on learning experiences that help students think, investigate, and reason like scientists.

- Phenomena-based science instruction
- Hands-on investigations and engineering design
- Teacher-guided inquiry and discourse
- Purposeful digital visualization tools
- Flexible implementation options
- Standards-aligned learning experiences

