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Who We Are…..

• Grade 5-12 science publisher since 1963
  – Middle school
  – High School Environmental Science, Physical Science, Biology, Chemistry
  – Modules (SEPUP) and topic targeted kits (i.e., blood typing, molecular model building, rock cycle)
• From Complete Core Curricula to Units and Activity kits
• Former Teachers, Science Specialists, and Partnerships with Curriculum Developers (Ergopedia@MIT, EDC, and SEPUP at Lawrence Hall of Science)
SEPUP: Learning Cycle Model

**COLLECT SCIENTIFIC EVIDENCE**
Gather scientific evidence through inquiry activities and readings.

**CHALLENGE**
Focus on a specific question. What do we need to know?

**ANALYZE THE EVIDENCE**
Interpret and / or evaluate the nature of scientific evidence.

**BUILD KNOWLEDGE AND MAKE CONNECTIONS**
Build conceptual understanding of important scientific ideas. Connect new learning to previous ideas.

**USE EVIDENCE**
Apply the evidence to address the original issue or problem.

**MOTIVATE**
Create a context with an issue or problem and elicit students’ prior knowledge.
SEPUP: Issues

- What makes a mineral valuable?
- Where is the best place to build a house?
- What would I need to know about chemistry to buy a ‘Green computer’?
- What criteria should I use to choose a safe vehicle?
- What would I want to know about heritable traits so that I can make an informed decision about genetic testing?
SEPUP: Literacy Strategies

KWL

Three-level Reading Guide

Anticipation Guide

Writing Frames

Categorization Activity

Walking Debate

Concept Maps

Talking Drawings

Discussion Web

Venn Diagram
SEPUP: Assessment

Formative:
• Quick checks
• Embedded assessments
• Analysis Questions
• Literacy strategy tools
• Notebooking

Summative
• Embedded questions
• Item banks (ExamView)
SEPUP: Assessment Variables

Designing Investigations (DI)
Organizing Data (OD)
Analyzing Data (AD)
Understanding Concepts (UC)
Recognizing Evidence (RE)
Evidence and Trade-Offs (ET)
Communication Skills (CS)
Organizing Scientific Ideas (SI)
Group Interaction (GI)
SEPUP: Life, Earth and Physical Science

- Complete disciplinary, year-long courses or select from 23 units that comprise the year-long courses
- Reflect content and structures of NGSFramework
  - Scientific practices are woven throughout the SEPUP middle school curriculum Crosscutting concepts emerge and build through each SEPUP course
  - Activities include phases of the engineering practices of creating, testing, and redesigning solutions to human needs
- The personal and social issues embedded in each SEPUP unit provide meaningful contexts for students to engage in explanations of solutions, arguments from evidence, and obtaining, evaluating, and communicating information
- Real-world applications lead to synthesis of ideas
SEPUP: Student Texts

- Challenge/essential questions based on real-world "issues"
- Each Activity (Lesson): Elicits Prior Knowledge, Guides the "Doing", Guides the Debrief
- Built-in structures for Diverse Learners and literacy supports
- Available as hard copy, online, ePub, PDF...
SEPUP: Teacher’s Resources

- Background content information
- Guidance through every activity
- Moderated student work
- Extensions and other resources
SEPUP: Materials

- Micro-scale, less waste
- Color-coded labels on all chemicals
- Plastic tray inserts keep you organized
- Reduces your prep time
- Refurbishment for about $3 per student/year
- For groups of 2 or 4
- 5 sections of 32=160 students/equipment package
SEPUP: Additional Features

• L(Absent) student system near completion
• Professional development support
• Catalyst opportunity