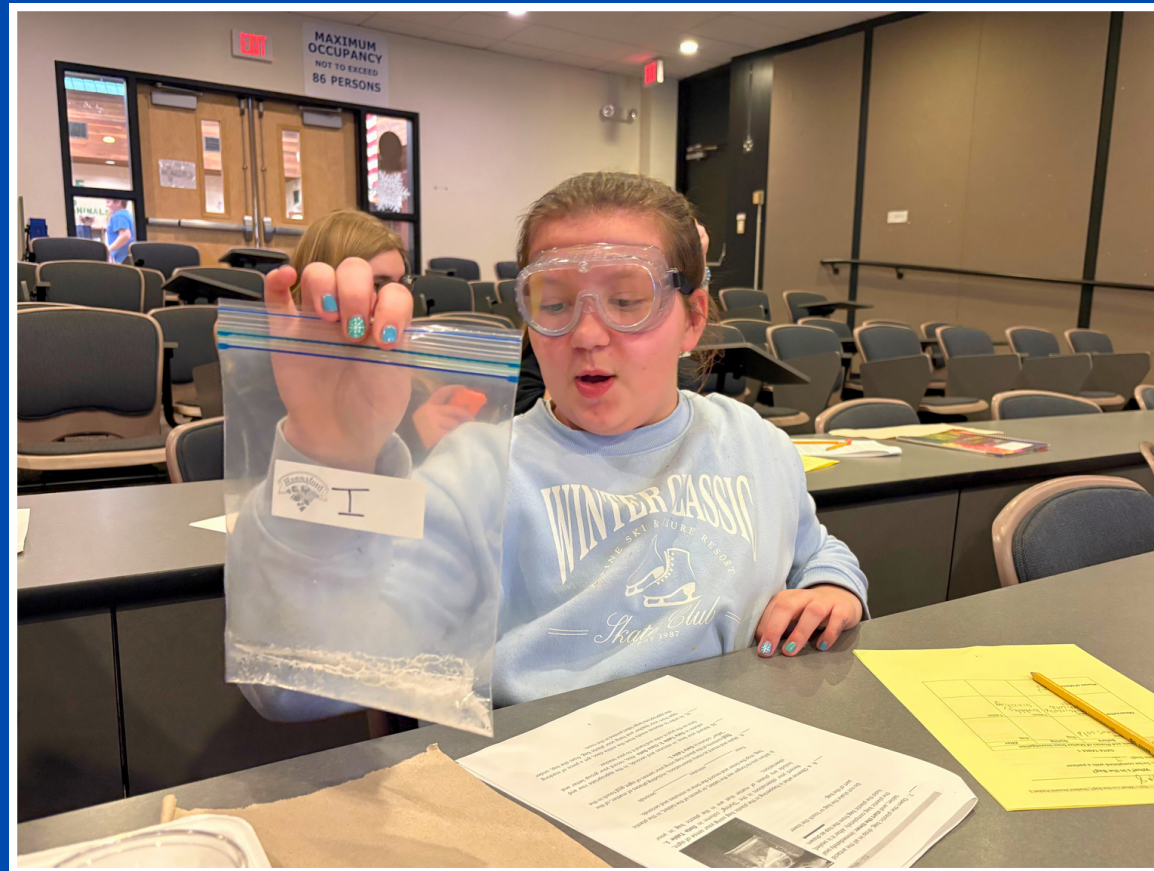


Ichabod Crane Central School District

K-12 Science Program Review

CELEBRATIONS AND RECOMMENDATIONS



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K-12 Program Review Team

Leadership & Support

Lucas Christensen, Assistant Superintendent
Kara DiMarino, Instructional Coach
Annette Romano, NBCT-Consultant

Primary-Elementary K-5

Jaime Eastman
Angela Shevy

Middle School 6-8

Rebecca Rowley

High School 9-12

Cori Drummond



The Program Review Process

- ✓ NYSED's Science Learning Standards
- ✓ Evidence: Curriculum, Assessments, Surveys, Grades, Discussions
- ✓ Findings and Recommendations



Instructional Program Review Cycle

 INSTRUCTIONAL PROGRAM REVIEW CYCLE - 6-Year Schedule											
School Year	Science Education	World Language	Math	Music	Business & CTE & FACS	ELA	Social Studies	PE	Health	Library/Media	Counseling SW, School Psychologists
2025-26	Year 1 Analysis Plan										
2026-27	Year 2 Development	Year 1 Analysis Plan	Year 1 Analysis Plan	Year 1 Analysis Plan							
2027-28	Year 3 Implement Pilot	Year 2 Development	Year 2 Development	Year 2 Development	Year 1 Analysis Plan	Year 1 Analysis Plan	Year 1 Analysis Plan				
2028-29	Year 4 Implement Monitor	Year 3 Implement Pilot	Year 3 Implement Pilot	Year 3 Implement Pilot	Year 2 Development	Year 2 Development	Year 2 Development	Year 1 Analysis Plan	Year 1 Analysis Plan	Year 1 Analysis Plan	
2029-30	Year 5 Implement Monitor	Year 4 Implement Monitor	Year 4 Implement Monitor	Year 4 Implement Monitor	Year 3 Implement Pilot	Year 3 Implement Pilot	Year 3 Implement Pilot	Year 2 Development	Year 2 Development	Year 2 Development	Year 1 Analysis Plan
2030-31	Year 6 Implement Monitor	Year 5 Implement Monitor	Year 5 Implement Monitor	Year 5 Implement Monitor	Year 4 Implement Monitor	Year 4 Implement Monitor	Year 4 Implement Monitor	Year 3 Implement Pilot	Year 3 Implement Pilot	Year 3 Implement Pilot	Year 2 Development
2031-32	Year 1 Analysis Plan	Year 6 Implement Monitor	Year 6 Implement Monitor	Year 6 Implement Monitor	Year 5 Implement Monitor	Year 5 Implement Monitor	Year 5 Implement Monitor	Year 4 Implement Monitor	Year 4 Implement Monitor	Year 4 Implement Monitor	Year 3 Implement Pilot
2032-33	Year 2 Development	Year 1 Analysis Plan	Year 1 Analysis Plan	Year 1 Analysis Plan	Year 6 Implement Monitor	Year 6 Implement Monitor	Year 6 Implement Monitor	Year 5 Implement Monitor	Year 5 Implement Monitor	Year 5 Implement Monitor	Year 4 Implement Monitor

The Context

**NYSED
Standards and
Assessments**



**Ichabod Crane CSD
Mission
Instructional Program Vision
Portrait of a Rider
Rider Goals**



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PROGRAM REVIEW REPORT

REFLECTION, ANALYSIS, AND
RECOMMENDATIONS

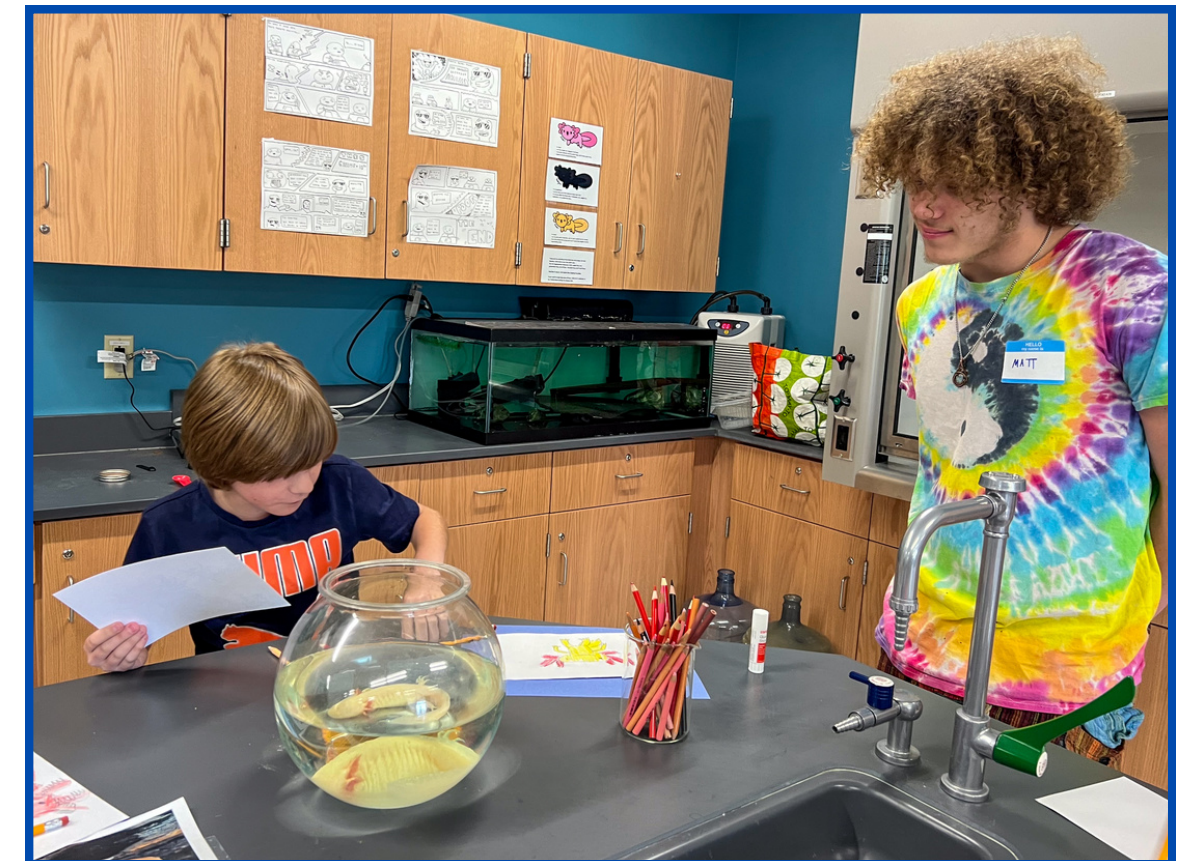


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Framework:

- Curriculum
- Assessment
- Instructional Resources
 - Celebrations
 - Analysis
 - Recommendations
 - Resources



K-12 Science Program Celebrations

Curriculum: Across K-12 educators have dedicated time and effort to aligning to **NYSED science standards and assessments**

Resources and Facilities: Educators believe they have facilities, technology, and resources to implement high quality science instruction

Community Engagement and Special Programs: The program is enriched by opportunities with community organizations, special events, and experts

Professional Learning and Collaboration: Educators enhance the science program through relevant professional learning, collaboration within departments, levels, and administrators

Primary/Elementary K-5 Celebrations

Instructional Support & Coaching:

- Math & Science Instructional Coach
- Administrative Support
- Teacher Engagement

Curriculum & Resources:

- Consistent Implementation
- District Provisions
- STEAM Lab/Room

Special Programs & Enrichment:

- K-5 STEAM Day
- State & Community Partnerships:
 - NYS Ag in the Classroom: Participation in the Mac & Cheese Challenge
 - NYS DEC Seedling Program
 - Nurtured by Nature — integrates Social Emotional Learning with Science Standards
 - Peer Mentorship with Middle School

Professional Learning & Collaboration



Middle School Celebrations

Student Achievement & Assessment:

- Performance: 16% increase in 8th grade NYS Science Exam Passing Rate for 2024-2025

Curriculum & Standards Alignment (NYSSLS):

- Teacher Readiness: 100% of teachers feel comfortable with the New York State Science Learning Standards (NYSSLS)

Curriculum Development:

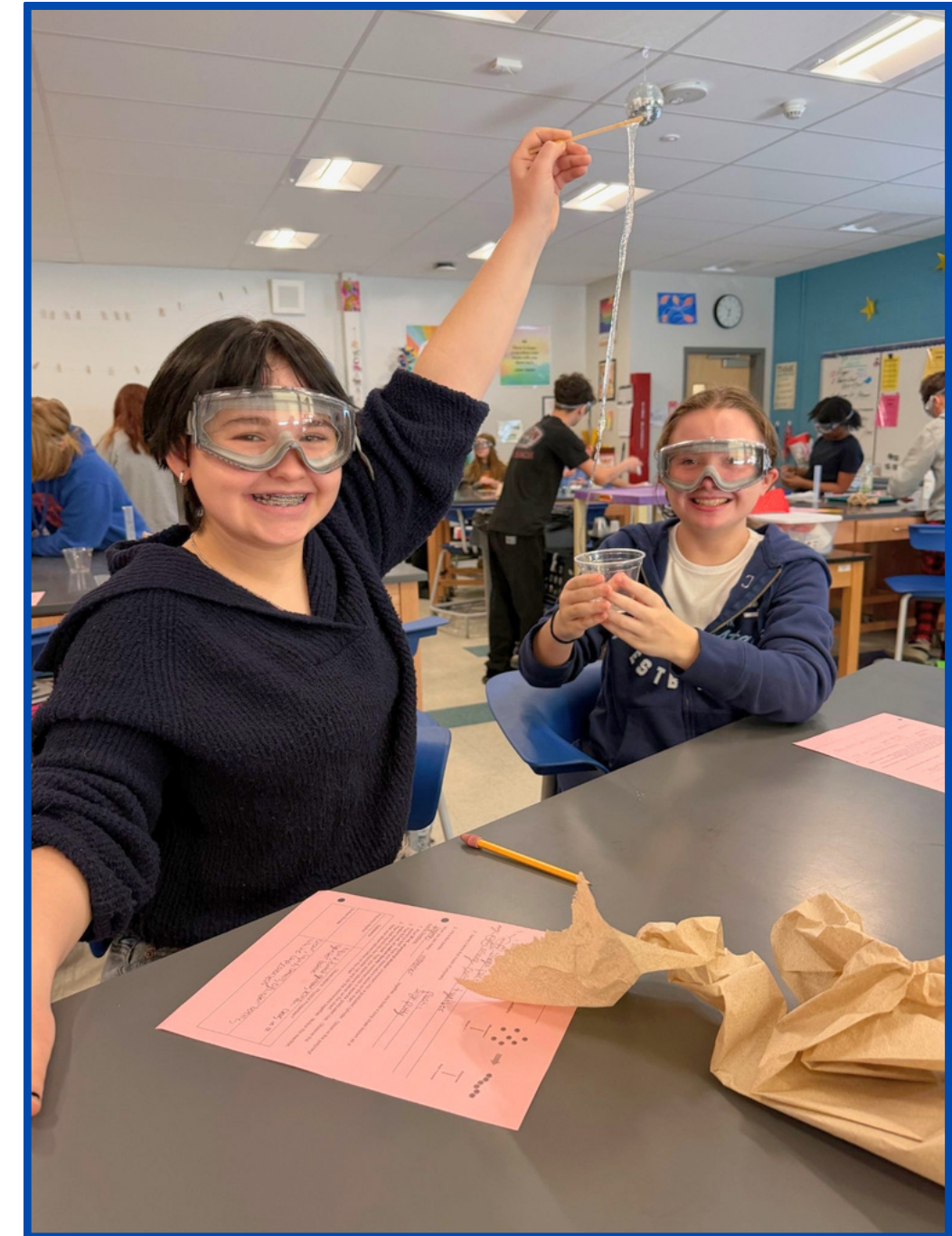
- Summer curriculum time has been highly productive for developing new strategies and scaffolding

Classroom Environment & Student Engagement

- 95% of students feel supported by their science teachers; 72% of parents report their child has a good relationship with their teacher

Instructional Resources & District Support

- 100% teachers feel they have the support and supplies to do a quality job for our students



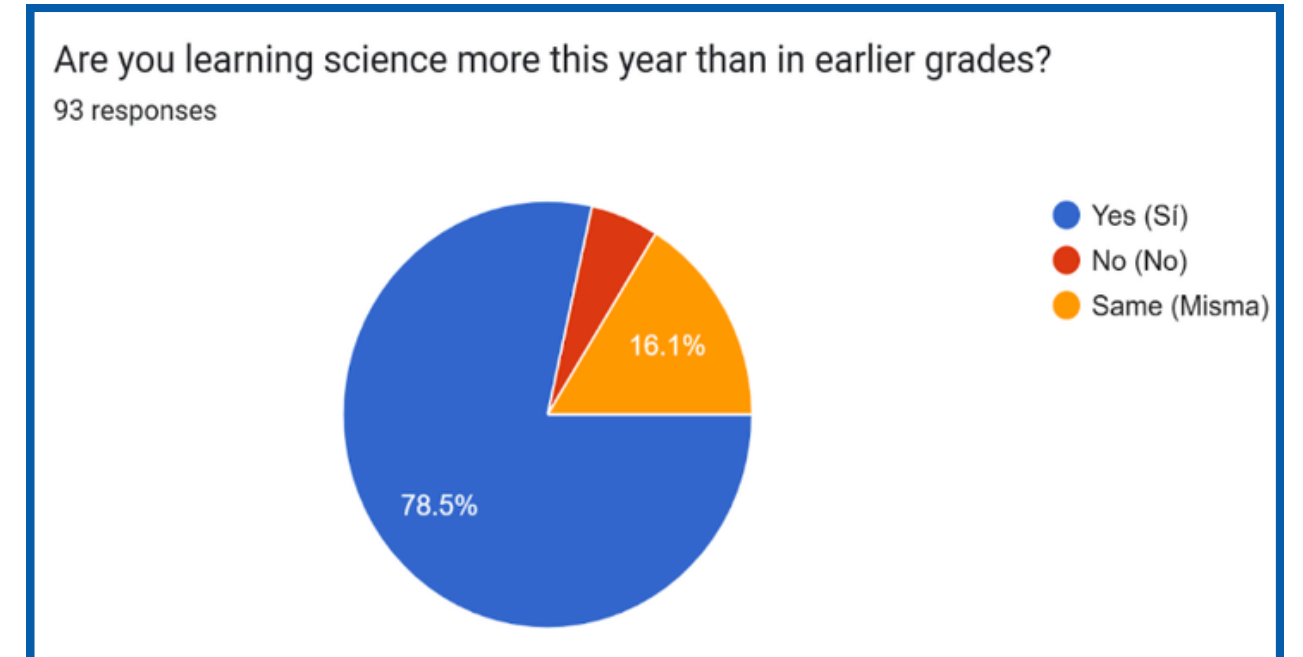
High School Celebrations

- **Community Partnerships & Authentic Learning**
 - NYSDEC, Columbia County Soil and Water, NYS Department of Agriculture, Columbia County Sheriff's Office
- **Advanced Academic Opportunities**
 - AP Physics, AP Biology, Columbia-Greene Community College Credit Courses (Anatomy, Environmental Studies, Advanced Biology)
- **Student & Parent Satisfaction**
 - 81.1% of parents rate the program as "Good" or "Excellent"
 - 83.1% of students feel supported by their teachers
- **Academic Performance & Standards Alignment**
 - Living Environment: Top 5 proficiency rates in Questar III BOCES
 - Earth Science & Physics: Top 10 proficiency rates in Questar III BOCES



K-5 Analysis — Survey

- **Benefits of an Instructional Coach**
- **K-12 Articulation**
- **Need for Assessments**
- **Continued Professional Learning**
- **Enhanced parent/guardian communication**

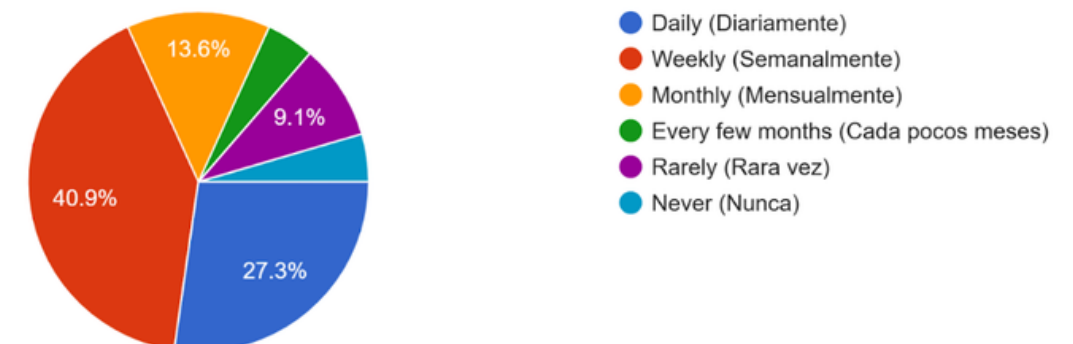


6-8 Middle School Analysis

- **83% of MS students and 82% of parents rated the science program “Good” or “Excellent”**
- **68% of students talk about their science class at home daily or weekly**
- **Surveys indicate a need to address literacy concerns:**
 - NYS Exam and Investigations are above grade level for reading and are challenging for students
 - Teachers want more strategies to support literacy in the classroom
- **Teachers request more professional learning and time to development quality assessments**

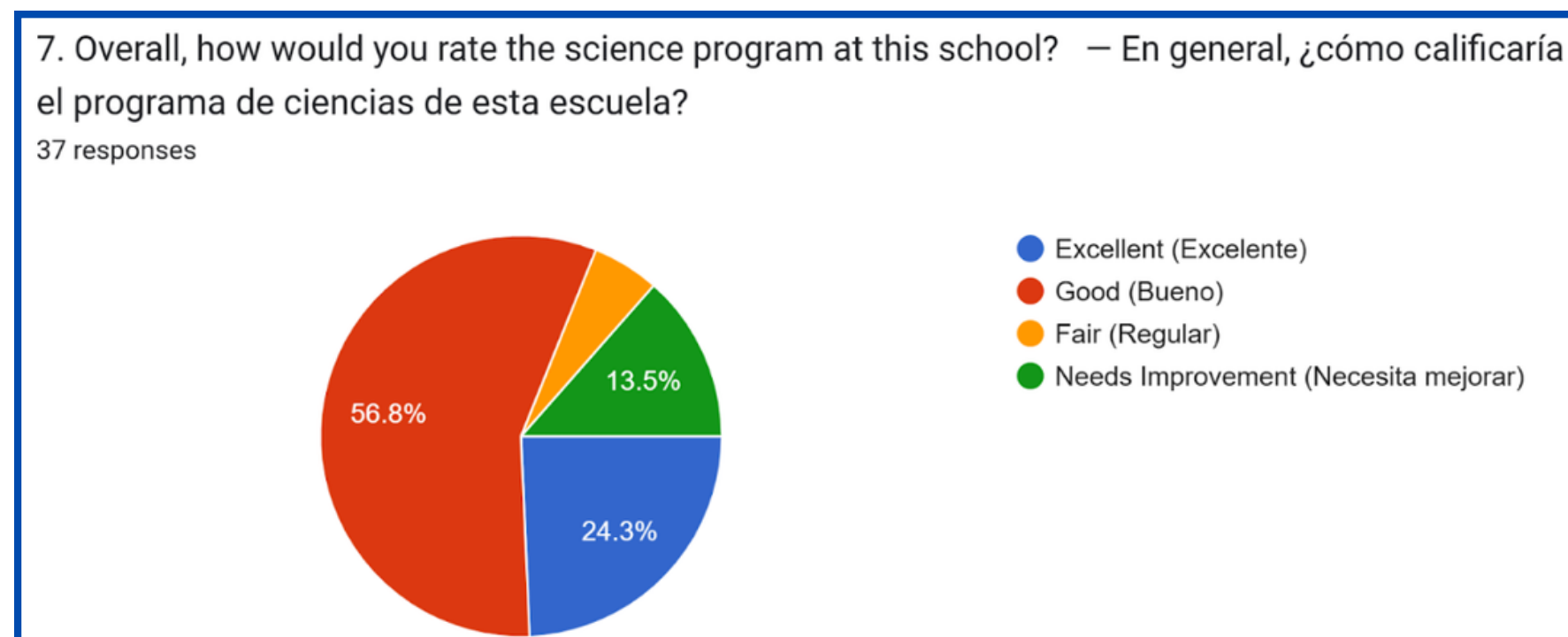


2. How often does your child talk about what they are learning in their science class at Ichabod Crane Middle School? — 2. ¿Con qué frecuencia hab...ciencias en la escuela intermedia Ichabod Crane?
22 responses



High School School Analysis

- **Continued effort to prepare students for NYSSLS Regents exams**
 - Newer exams are challenging and require extensive reading and analysis
 - Need new strategies to help students approach these exams
 - 91.0% of students identify labs and activities as essential to their learning process
- **Identified a need for further Professional Learning on:**
 - Supporting ELLs
 - Literacy within Science
 - Building Resilience
- **Interest in expanding on Science offerings (Astronomy, Meteorology, Marine Science)**



Recommendations

Curriculum:

- **K-12 Curriculum Alignment**
 - discussing terminology
 - supporting ELLs/ Special Needs
 - developing pacing guides and digital resources
- **High School explore new electives**
- **Strategies to scaffold learning for all students with a focus on ELLs and SPED students**
- **Continued focus on authentic learning experiences & labs**

Assessment:

- **K-12 Assessment Development & Analysis**
 - Develop assessments aligned to new NYS exams and standards
 - Review data from past exams to inform instruction
 - Developing strategies for student resilience



Recommendations, continued

Instructional Resources and Supports:

Primary/Elementary

- **Continue:**
 - Instructional Coach
 - STEAM lab
 - Resources



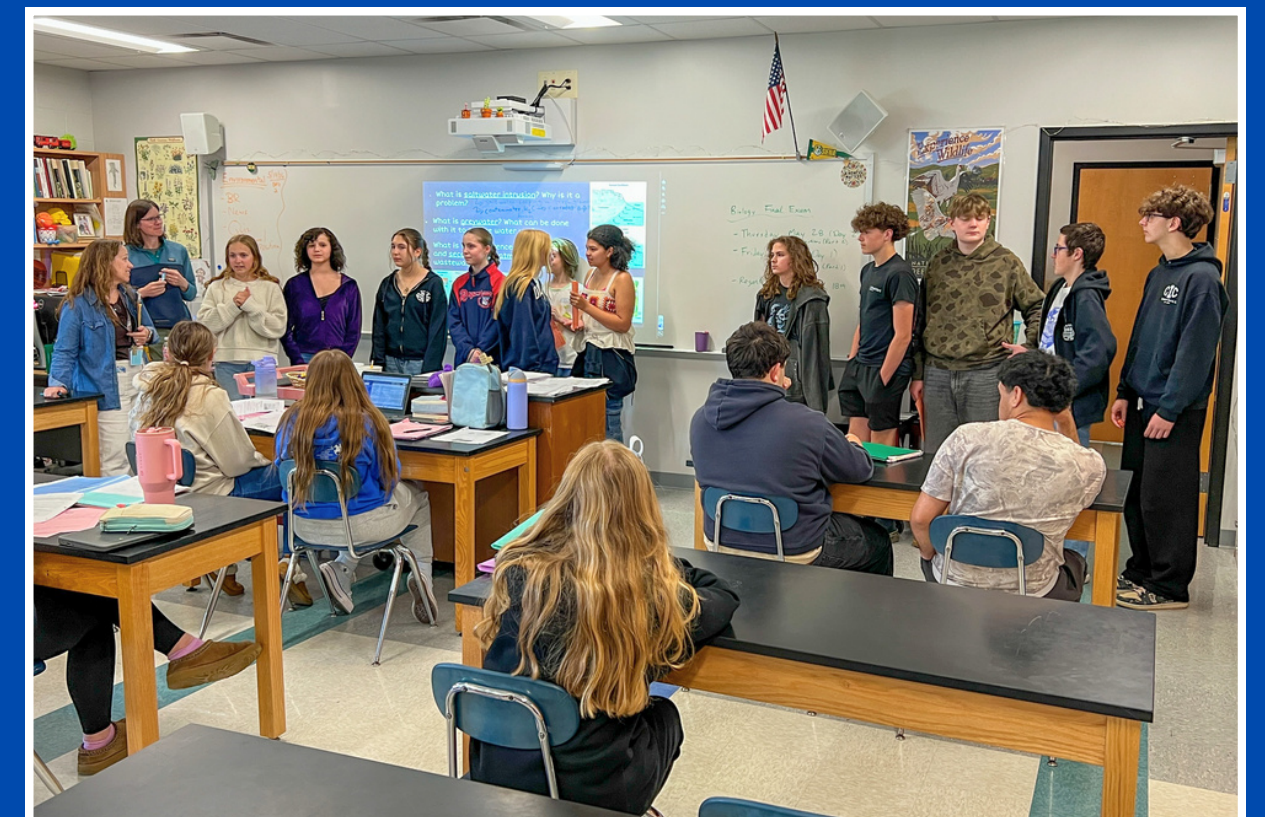
Middle School/High School

- Professional Learning on literacy strategies

K-12 District Share Digital Resources

- K-12 Pacing Guides
- K-12 Curriculum Maps

K-12 Continue to build partnerships



Many Thanks



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