

# School Improvement Plan: Science

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## Goals

85% of our students will earn an achievement level of 3, 4 or 5 in science on the 2012 FCAT. (74% in 2011)

45% of these students will earn an achievement level of 4 or 5. (29% in 2011)

## Barriers

## Strategies

Students need help reading and understanding material in the content area



Teachers will provide opportunities for students to learn how to read and understand science-based literature and informational text using CISM activities.

Students lack effective note-taking and summarizing skills



Teachers will incorporate HOT/FCAT reading stems and summarizing activities into their lessons

Students need help communicating their understanding of science concepts



Writing will be infused into science classes regularly by having students draft and write laboratory reports and/or reflection journals

Students need to see real-life relevance of science through inquiry learning



- Teachers will:
- incorporate science-based magazines and journal articles into class activities
  - establish a research progression plan
  - engage in an inquiry-based research project
  - integrate technology

Students in our changing world need a global focus



Teachers will incorporate MYP units and inquiry learning  
Teachers will meet in PLCs to discuss strategies for infusing a global focus

Grade level teachers often differ regarding assessment



Teachers will create pre and post summative assessments together to ensure that the same level of rigor is expected

Teachers need information about the strengths/weaknesses of their students



Teachers will analyze test data related to student performance in science and reading

Students lack the skills and opportunity to actively resolve issues with local and global communities



Teachers will promote technology education, student decision-making and active community involvement

High-performing students need a more rigorous and cohesive curriculum, integrating technology and world issues



**Teachers will:**

- establish a progression plan
- develop a culminating project
- infuse authentic assessment
- discuss strategies to add rigor
- integrate technology

**Professional Development**

1. CISM
2. PLC's
3. IB training
4. Technology

**Budget Items**

- Magazines
- Lab Materials/Equipment
- Web-based Subscriptions
- Technology Training/Equipment
- Substitutes- Vertical Planning