

Standards Based Science

What Does it Look Like?

Standards

Process Standard

- **As a result of activities in grades K-4, all students should develop--**
 - Abilities necessary to do scientific inquiry
 - Understandings about scientific inquiry

Content Standard (Life Science)

- **As a result of activities in grades K-4, all students should develop understanding of**
 - The characteristics of organisms
 - Life cycles of organisms
 - Organisms and environments

(National Science Education Standards)

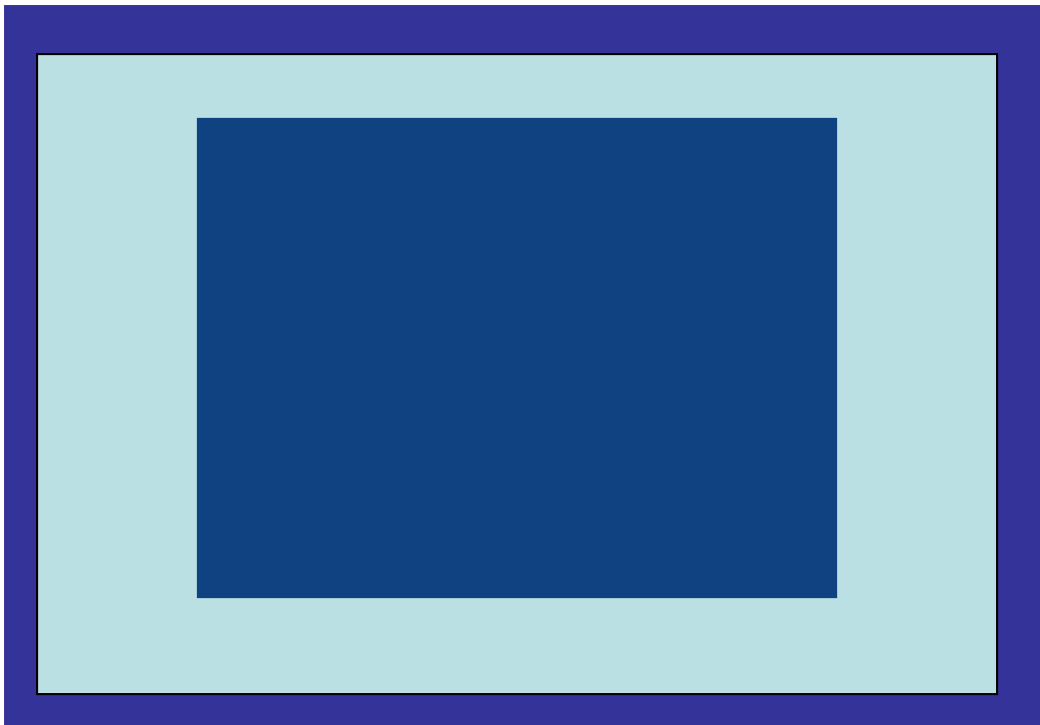
Video #1: Science Lesson (Rubric)

Process Standard

- **As a result of activities in grades K-4, all students should develop--**
 - Abilities necessary to do scientific inquiry
 - Understandings about scientific inquiry

This process standard (scientific inquiry) spirals across all grade levels, K-12.

Video science lesson



Video #2: Science Probe

Content Standard (Life Science)

- **As a result of activities in grades K-4, all students should develop understanding of**
 - The characteristics of organisms
 - Life cycles of organisms
 - Organisms and environments

Video #2: Science Probe

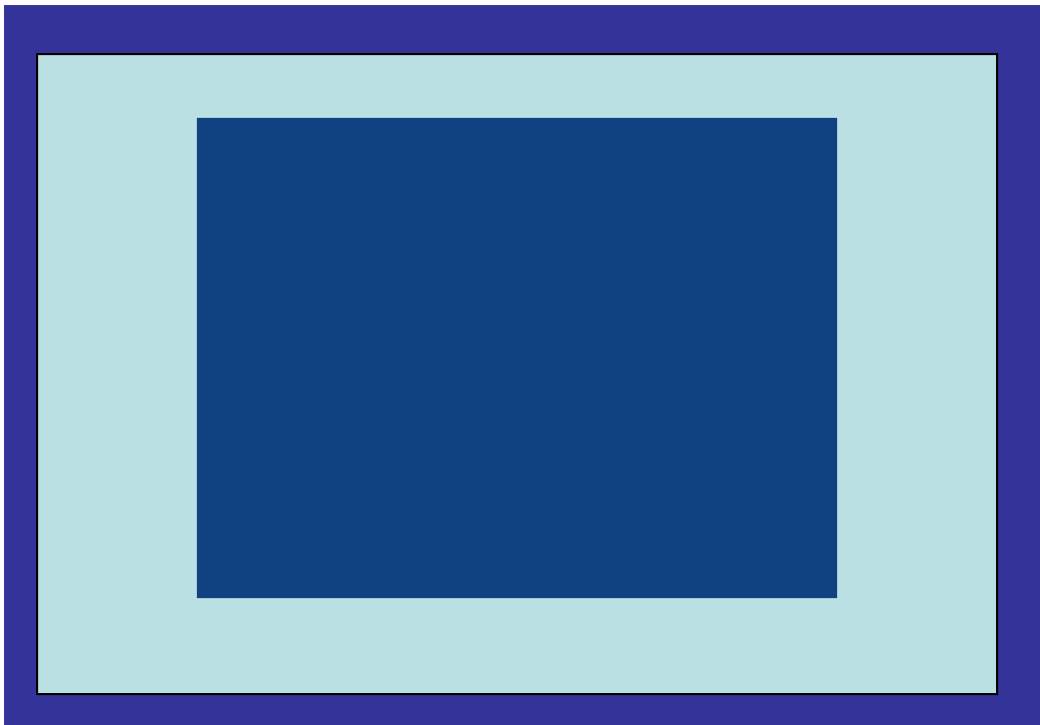
4th Grade Standard

- Students will distinguish between living and non-living things by identifying the characteristics of living things.

(Colorado Enhanced Assessment Grant)

This was an initial probe to determine Riannah's skill at identifying living vs non-living things.

Video science probe

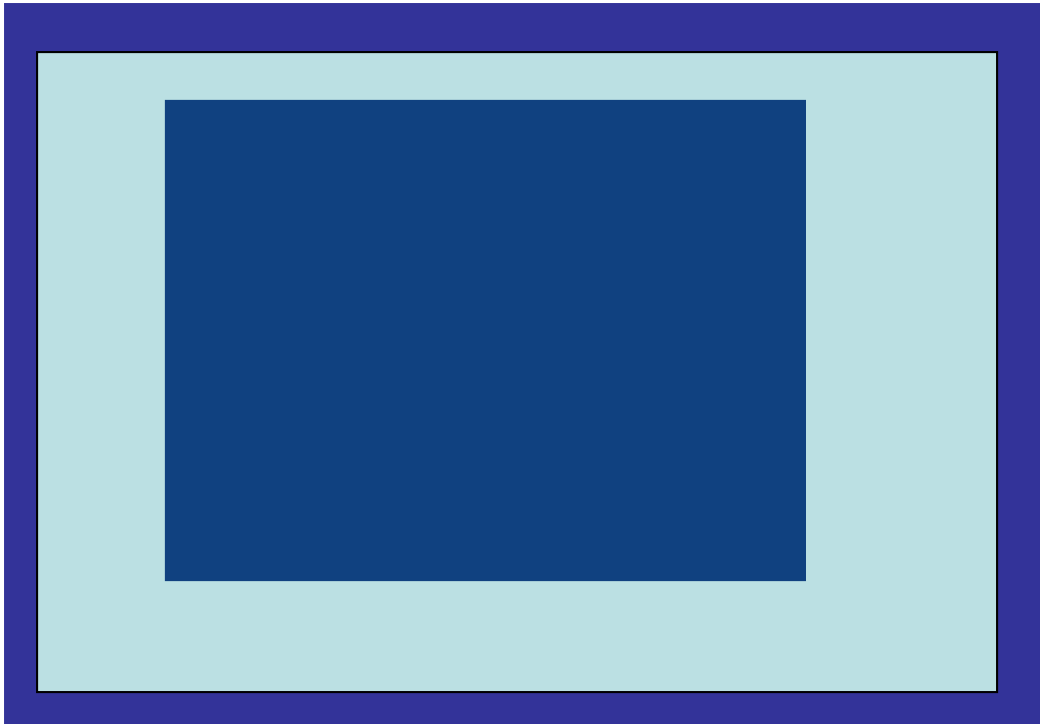


Video #3: Terrariums

Part of an instructional unit designed to facilitate the students in reaching both the process and content standards

- Look for embedded opportunities to instruct students on more traditional “functional” skills – following directions, prepositional placement, motor skills, communication, social, etc.
- Is this “science”? Does it link directly to the process standard? Does it link directly to the content standard?

Terrariums



References

- **Colorado Enhanced Assessment Grant**
- **National Science Education Standards**
<http://www.education-world.com/standards/national/science>