Focus Questions
Grade Five

Microworlds (STC)

Lesson 1: Observing a Penny
What is something new you can discover about a penny?

Lesson 2: Communicating your Observations
What is the difference between an observation, an inference, and an opinion?

Lesson 3: Learning about Lenses
What properties must objects have if they are to be used as magnifiers?

Lesson 4: Looking through Lenses
What have you learned about magnifiers?

Lesson 5: Learning to Use the Microscope
How are a hand lens and a microscope the same and different?

Lesson 6: Practicing with the Microscope
Using a microscope, what can you learn about how pictures are printed in newspapers and magazines?

Lesson 7: The Field of View
How does the field of view change as you get closer to an object? How does it change as the microscope magnifies an object?

Lesson 8: Preparing Slides
Which is the best slide mounting technique for viewing different objects?

Lesson 9: What Is It?
What properties of the four different substances enable you to identify what they are?

Lesson 10: Exploring Common Objects
How do you think the hay infusion will change over 3-4 weeks? Explain your thinking.
Microworlds Focus Questions (Continued)

Lesson 11, Part I: Looking Inside an Onion
How do we know if something is alive? How can a microscope help us determine if something is alive?

Lesson 11, Part 2: Looking Inside an Onion
How are cells organized in an organism, such as the human body, which is made up of many cells?

Lesson 12: Looking at Living Things: Volvox
What can you observe and learn about Volvox? Is it alive? Is it plant, animal, or what?

Lesson 13: Looking at Living Things: Blepharisma
What can you observe and learn about Blepharisma? Is it alive? Is it plant, animal or what?

Lesson 14: Looking at Living Things: Vinegar Eels
What can you observe and learn about vinegar eels? Are they plant, animal, or what?

Lesson 15-16: Looking at Living Things: Hay and Grass Infusions I and II
What are all the things an environment needs to provide in order for living things to survive?