

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Adventures in the Invisible Kingdom: A Pre-K Microbiology Challenge

Can tiny heroes help us stay healthy? Children will synthesize their knowledge of helpful microbes to design a balanced 'Invisible Garden' ecosystem.

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**1. If you were a scientist building a 'Super Soil' to help a flower grow big and strong, which invisible helper would you add to eat old leaves?**

- A. A tiny worm friend
- B. A decomposer fungus
- C. A big rock
- D. A piece of plastic

**2. Pretend you are making yogurt at home! To turn your milk into yummy yogurt, you need to invite a tiny guest named \_\_\_\_\_ to live in the jar.**

- A. Sugar
- B. Cold Water
- C. Lactobacillus bacteria
- D. A tiny beetle

**3. True or False: Some tiny microbes act like little shields inside our tummies to fight off germs that make us cough.**

- A. True
- B. False

**4. You see a pond that looks like it is covered in green paint! What invisible oxygen-maker is growing there in a big family?**

- A. Tiny fish
- B. Microscopic algae
- C. Small pebbles
- D. Raindrops

**5. If you want to see a tiny microbe dancing in a drop of water, you would need to use a special tool called a \_\_\_\_\_.**

- A. Telescope
- B. Flashlight
- C. Microscope
- D. Stethoscope

**6. You are designing a space station! Which microbe would you bring to turn astronaut 'waste' back into food for the space-plants?**

- A. Friendly bacteria

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- B. A space cat
- C. A vacuum cleaner
- D. An ice cube

**7. True or False: Every single tiny germ in the world wants to make us sick.**

- A. True
- B. False

**8. To keep the 'bad' microbes from jumping onto our snacks, we use \_\_\_\_\_ and water to wash our hands.**

- A. Sand
- B. Juice
- C. Soap
- D. Glue

**9. Imagine you are a tiny Protozoa. How would you move through a drop of water to find your lunch?**

- A. Using a bicycle
- B. By waving tiny hairs (cilia)
- C. Walking on two legs
- D. Flying with wings

**10. True or False: If we didn't have microbes, we wouldn't have fluffy bread to eat.**

- A. True
- B. False