

CELLS & MICROBES

scienceWriting

CONCEPTS COVERED:

- PLANT & ANIMAL CELLS
- ORGANELLES IN CELLS
- ACTIVE & PASSIVE TRANSPORT
- DIFFUSION & OSMOSIS
- UNICELLULAR & MULTICELLULAR
- MICROBES: VIRUSES, BACTERIA, PROTISTS, FUNGI
- HARMFUL & BENEFICIAL



GET STUDENTS EXCITED ABOUT LEARNING

HOW CAN IT BE USED?

The image displays four sample worksheets for a science unit on microbes and cells. Each worksheet is titled 'Microbes & Cells' and includes a 'Name' field. The questions are as follows:

- Worksheet 1: 'How much do you know? HOW DO THE FUNCTIONS OF RED BLOOD CELLS AND WHITE BLOOD CELLS DIFFER?' (with a 'DID YOU INCLUDE:' cloud icon)
- Worksheet 2: 'How much do you know? HOW CAN MICROBES BE HARMFUL? HOW CAN MICROBES BE BENEFICIAL?' (with a 'DID YOU INCLUDE:' cloud icon)
- Worksheet 3: 'How much do you know? WHAT'S THE DIFFERENCE BETWEEN UNICELLULAR ORGANISMS AND MULTICELLULAR ORGANISMS? PROVIDE EXAMPLES OF EACH.' (with a 'DID YOU INCLUDE:' cloud icon)
- Worksheet 4: 'How much do you know? HOW CAN MICROBES BE HARMFUL? HOW CAN MICROBES BE BENEFICIAL?' (with a 'DID YOU INCLUDE:' cloud icon)

Each worksheet includes a checklist for answer quality:

- ☐ details and/or evidence to support your answer?
- ☐ proper grammar usage and mechanics?
- ☐ correct spelling?
- ☐ important vocabulary?

Multiple Uses in the Classroom

- TICKET OUT THE DOOR
- MORNING WORK
- SMALL GROUPS
- HOMEWORK
- SCIENCE CENTERS
- WHOLE CLASS ACTIVITIES
- PARTNER ACTIVITIES
- EARLY FINISHER ACTIVITIES
- AND SO MUCH MORE!

GET HIGH-QUALITY, ENGAGING RESOURCES

WHAT'S THE OBJECTIVE?

- TO DETERMINE WHAT STUDENTS KNOW ABOUT THE CONCEPTS RELATED TO MICROBES AND CELLS.
- TO PRACTICE WRITING SKILLS IN THE SCIENCE CLASSROOM.
- TO PRACTICE PROVIDING DETAILS AND EVIDENCE TO SUPPORT THEIR SCIENTIFIC REASONING.
- TO USE SCIENTIFIC LANGUAGE AND VOCABULARY.

Name _____ <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> How much do you know? WHAT ARE SOME CHARACTERISTICS OF BACTERIA, PROTISTS, AND FUNGI? </div>	<div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> How much do you know? WHY IS IT IMPORTANT TO NOT OVERUSE HAND-SANITIZER AND ANTIBIOTICS? </div>	Name _____ <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> How much do you know? WHY IS THE NUCLEUS AN IMPORTANT ORGANELLE IN CELLS? </div>
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; width: 50px; margin: 0 auto;"> DID YOU INCLUDE: </div>	<div style="border: 1px solid black; border-radius: 50%; padding: 10px; width: 50px; margin: 0 auto;"> DID YOU INCLUDE: </div>	<div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> details and/or evidence to support your answer? <input type="checkbox"/> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> proper grammar usage and mechanics? <input type="checkbox"/> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> correct spelling? <input type="checkbox"/> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> important vocabulary? <input type="checkbox"/> </div>

SAVE TIME PLANNING WITH DETAILED ACTIVITIES

WHAT'S INCLUDED?

- PRINTABLE OPTIONS – HALF PAGE AND FULL PAGE
- DIGITAL VERSION
- EDITABLE PAPER VERSION SO YOU CAN TYPE YOUR OWN QUESTIONS!
- 22 QUESTIONS TOTAL!
- ANSWER KEY & A RUBRIC
- A CHECKLIST FOR STUDENTS

The image displays a stack of five sample questions from the 'Microbes & Cells' unit. Each question card has a header 'How much do you know?' and a 'DID YOU' cloud icon. The questions are:

- Question 1 (Pink header):** IF YOU WERE OBSERVING CELLS UNDER A MICROSCOPE, WHAT WOULD LEAD YOU TO INFER THAT THE CELLS ARE NOT ANIMAL CELLS?
- Question 2 (Orange header):** WHY ARE THERE DIFFERENT TYPES OF CELLS IN A PLANT OR AN ANIMAL?
- Question 3 (Yellow header):** ARE ALL CELLS MICROSCOPIC? EXPLAIN AND SUPPORT YOUR REASONING.
- Question 4 (Green header):** HOW DO THE VACUOLES IN THE ANIMAL CELL COMPARE TO THOSE IN A PLANT CELL? WHY ARE THEY DIFFERENT?
- Question 5 (Blue header):** WHAT ARE ORGANELLES AND WHICH ARE COMMON IN THE CELLS OF MOST ORGANISMS?

Each question card has a 'DID YOU' cloud icon and a 'Microbes & Cells' label. The bottom card also includes a checklist for students:

DID YOU INCLUDE:

- ☐ details and evidence to support your answer?
- ☐ proper grammar usage and mechanics?
- ☐ correct spelling?
- ☐ important vocabulary?

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TAKE YOUR WEEKENDS BACK TO DO WHAT YOU LOVE!

SAVE MONEY AND GRAB THE BUNDLE!

Earth Science Bundle

- CYCLES AND SYSTEMS
- EARTH CHANGES
- EARTH'S SURFACE
- EARTH MOON SUN
- FOSSILS
- NATURAL RESOURCES
- ROCKS AND MINERALS
- SOIL
- SOLAR SYSTEM
- WEATHER

Life Science Bundle

- ADAPTATIONS
- ANIMALS
- CELLS AND MICROBES
- ECOSYSTEMS
- GENETICS
- HUMAN BODY SYSTEMS
- LIFE CYCLES
- PLANTS

Physical Science Bundle

- CHEMICAL AND PHYSICAL CHANGES
- ELECTRICITY AND MAGNETISM
- ENERGY
- FORCE AND MOTION
- MATTER
- SIMPLE MACHINES
- STATES OF MATTER
- WAVES

IT ALL STARTS HERE!

Take **BACK YOUR**
WEEKENDS without
SACRIFICING
high-quality **RESOURCES!**



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