

CYCLES & SYSTEMS scienceWriting

CONCEPTS COVERED:

- EARTH'S 4 SYSTEMS
- THE WATER CYCLE
- THE NITROGEN CYCLE
- THE CARBON DIOXIDE-OXYGEN CYCLE
- ENERGY FLOW IN AN ECOSYSTEM



GET STUDENTS EXCITED ABOUT LEARNING

HOW CAN IT BE USED?

The image displays four sample worksheets from 'The Owl Teacher'. Each worksheet has a header 'Cycles & Systems' and a 'Name' field. The worksheets are titled as follows:

- Top-left: *How much do you know?* **HOW DO EARTH'S SYSTEMS PRODUCE WEATHER AND CLIMATE?**
- Top-right: *How much do you know?* **HOW HAVE HUMANS UPSET THE BALANCE OF THE CARBON DIOXIDE-OXYGEN CYCLE?**
- Bottom-left: *How much do you know?* **WHAT CAN PEOPLE DO TO PROTECT EARTH'S SYSTEMS?**
- Bottom-right: *How much do you know?* **WHAT CAN PEOPLE DO TO PROTECT EARTH'S SYSTEMS?**

Each worksheet includes a 'DID YOU INCLUDE:' section with a checklist:

- ☐ 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 CYCLES AND SYSTEMS.
- 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.

The image shows three overlapping student worksheets for science activities. Each worksheet has a header 'Cycles & Systems', a 'Name' field, a 'How much do you know?' section, a main question, a 'DID YOU INCLUDE:' cloud icon, and a checklist on the right.

Worksheet 1 (Left):

- Name: _____
- How much do you know? _____
- WHAT WOULD HAPPEN IF THE AIR IN THE UPPER ATMOSPHERE WERE WARMER THAN WATER VAPOR IN THE AIR?
- DID YOU INCLUDE: _____
- Checklist: ☐ details and/or evidence to support your answer? ☐ proper grammar usage and mechanics? ☐ correct spelling? ☐ important vocabulary?

Worksheet 2 (Middle):

- Name: _____
- How much do you know? _____
- HOW DOES ENERGY FLOW THROUGH AN ECOSYSTEM?
- DID YOU INCLUDE: _____
- Checklist: ☐ details and/or evidence to support your answer? ☐ proper grammar usage and mechanics? ☐ correct spelling? ☐ important vocabulary?

Worksheet 3 (Right):

- Name: _____
- How much do you know? _____
- PROVIDE EVIDENCE TO SUPPORT THE STATEMENT THAT ORGANISMS IN THE BIOSPHERE AFFECT ALL OF EARTH'S SYSTEMS.
- DID YOU INCLUDE: _____
- Checklist: ☐ details and/or evidence to support your answer? ☐ proper grammar usage and mechanics? ☐ correct spelling? ☐ important vocabulary?

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

How much do you know? cycles & Systems

DESCRIBE EARTH'S FOUR SYSTEMS.

DID YOU

How much do you know? cycles & Systems

HOW DO EARTH'S SYSTEMS PRODUCE WEATHER AND CLIMATE?

DID YOU

How much do you know? cycles & Systems

HOW DO EARTH'S SYSTEMS CHANGE EARTH'S SURFACE?

DID YOU

How much do you know? cycles & Systems

HOW DO FARMING AND INDUSTRY AFFECT EARTH'S SYSTEMS?

DID YOU

How much do you know? cycles & Systems

HOW DO PEOPLE'S EVERYDAY LIVES AFFECT EARTH'S SYSTEMS?

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!**



The Owl Teacher