

# WAVES

# scienceWriting

## CONCEPTS COVERED:

- OCEAN, SOUND, LIGHT WAVES
- WAVES & THEIR PROPERTIES
- WAVES AND THEIR RELATIONSHIPS
- TRANSPARENT, TRANSLUCENT, OPAQUE
- ABSORPTION, REFLECTION, REFRACTION



**GET STUDENTS EXCITED ABOUT LEARNING**

# HOW CAN IT BE USED?

Four overlapping student worksheets are shown, each with a 'Name' field, a 'Waves' header, and a 'DID YOU INCLUDE:' checklist. The worksheets contain questions about sound waves and wave interactions.

Worksheet 1 (top left):  
Name: \_\_\_\_\_  
Waves  
How much do you know?  
WHAT TYPES OF WAVES ARE SOUND WAVES?  
HOW DO THEY MOVE MATTER AND ENERGY?  
DID YOU INCLUDE:  
 details and/or evidence to support your answer?  
 proper grammar usage and mechanics?  
 correct spelling?  
 important vocabulary?

Worksheet 2 (top right):  
Name: \_\_\_\_\_  
Waves  
How much do you know?  
DO WAVES, SUCH AS SOUND AND LIGHT WAVES, ALWAYS WORK IN HARMONY WITH EACH OTHER? EXPLAIN.  
DID YOU INCLUDE:  
 details and/or evidence to support your answer?  
 proper grammar usage and mechanics?  
 correct spelling?  
 important vocabulary?

Worksheet 3 (middle left):  
Name: \_\_\_\_\_  
Waves  
How much do you know?  
IF SOMEONE IS WHISPERING, THE DISTANCE BETWEEN THE CREST AND THE TROUGH IS SMALLER. WHAT DOES THIS SAY ABOUT THE RELATIONSHIP BETWEEN THE AMPLITUDE AND THE DISTANCE BETWEEN THE CREST AND TROUGH?  
DID YOU INCLUDE:  
 details and/or evidence to support your answer?  
 proper grammar usage and mechanics?  
 correct spelling?  
 important vocabulary?

Worksheet 4 (middle right):  
Name: \_\_\_\_\_  
Waves  
How much do you know?  
DO WAVES, SUCH AS SOUND AND LIGHT WAVES, ALWAYS WORK IN HARMONY WITH EACH OTHER? EXPLAIN.  
DID YOU INCLUDE:  
 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 WAVES.
- 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 a science activity. Each worksheet is titled 'Waves' and includes a 'Name' field. The worksheets are designed to assess student knowledge and writing skills.

**Worksheet 1 (Top):**  
Name: \_\_\_\_\_  
How much do you know?  
EXPLAIN THE RELATIONSHIP WITH LIGHT WAVES AND THE TERMS TRANSPARENT, TRANSLUCENT, AND OPAQUE.  
DID YOU INCLUDE:

**Worksheet 2 (Middle):**  
Name: \_\_\_\_\_  
How much do you know?  
HOW ARE THE RAYS OF LIGHT COMING OFF A SMOOTH OBJECT DIFFERENT FROM THOSE COMING OFF A BUMPY SURFACE?  
DID YOU INCLUDE:

**Worksheet 3 (Bottom):**  
Name: \_\_\_\_\_  
How much do you know?  
EXPLAIN HOW WAVES ARE INVOLVED WHEN TALKING ON A CELL PHONE.  
DID YOU INCLUDE:

**Checklist (Right side of Worksheet 3):**

- 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? Waves

IMAGINE YOU ARE IN A BODY OF WATER THAT HAS WAVES, SUCH AS A LARGE LAKE OR THE OCEAN. THE WATER REACHES YOUR WAIST. HOW WILL ENERGY IN A SMALL WAVE AFFECT YOU AS THE WAVE PASSES?

DID YOU

How much do you know? Waves

HOW DO YOU THINK MODELS HELP SCIENTISTS STUDY OCEAN WAVES?

DID YOU

How much do you know? Waves

HOW DO YOU THINK BUOYS HELP SCIENTISTS STUDY WAVES?

DID YOU

How much do you know? Waves

WHAT IS UNIQUE ABOUT HOW WAVES FROM SUNLIGHT MOVE?

DID YOU

How much do you know? Waves

WHAT PATTERNS DO ALL TYPES OF WAVES SHARE?

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!

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

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- ECOSYSTEMS
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- MATTER
- SIMPLE MACHINES
- STATES OF MATTER
- WAVES

**IT ALL STARTS HERE!**

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

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