

# FORCE & MOTION

# scienceWriting

## CONCEPTS COVERED:

- FORCES & MOTIONS
- BALANCED & UNBALANCED FORCES
- CONTACT & NONCONTACT FORCES
- GRAVITY, FRICTION, MAGNETIC EFFECTS
- PUSH AND PULL
- SPEED



**GET STUDENTS EXCITED ABOUT LEARNING**

# HOW CAN IT BE USED?



## 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 FORCE AND MOTION.
- 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 'Force & Motion' activity. Each worksheet has a 'Name' field, a 'How much do you know?' section, and a 'DID YOU INCLUDE?' checklist. The questions on the worksheets are:

- 1. **WHY DO ENGINEERS NEED A GOOD UNDERSTANDING OF HOW FORCES INTERACT?**
- 2. **IF EARTH IS ROTATING AT A HIGH SPEED, WHY CAN'T WE OBSERVE ITS MOTION?**
- 3. **WHICH IS HARDER TO PULL, AN EMPTY WAGON OR A WAGON FILLED WITH ROCKS? WHY?**

The 'DID YOU INCLUDE?' checklist on the rightmost worksheet includes the following items:

- 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? Force & Motion  
HOW ARE FORCES INVOLVED IN MOVING A PIZZA IN AND OUT OF AN OVEN?  
DID YOU

How much do you know? Force & Motion  
HOW DOES CHANGING THE STRENGTH OF THE FORCE CHANGE THE AMOUNT OF WEIGHT THAT CAN BE MOVED?  
DID YOU

How much do you know? Force & Motion  
COMPARE AND CONTRAST BALANCED AND UNBALANCED FORCES.  
DID YOU

How much do you know? Force & Motion  
IS FRICTION A CONTACT FORCE? WHY OR WHY NOT?  
DID YOU

How much do you know? Force & Motion  
WHAT IS THE RELATIONSHIP BETWEEN FRICTION AND MOTION?  
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!**

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

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