



CD-404165



Science Games & Puzzles

Grades
5-8

Supports
STEM
Initiative

Facilitates Differentiated Instruction • Builds Science Vocabulary



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Science

Games and Puzzles

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Teacher Introduction

Science Games and Puzzles is designed to actively engage students in learning science. When students are motivated and having fun, they are more open to learning. If students experience a new term, phrase, or concept only once, they are left with an initial, partial understanding. To develop a deep understanding of science, students must also be engaged in review and reinforcement activities. Educational games and puzzles are great strategies for getting students to “buy-in” to studying, learning, and retaining science content.

The purpose of this book is to provide teachers with a variety of challenging and motivational activities that can be used to help students learn science vocabulary and concepts. Since students enjoy playing games, solving puzzles, and decoding messages, games can be used to introduce, reinforce, review, or quickly assess what has been learned. Crosswords and puzzles are an effective learning tool that can provide the same outcome as a worksheet, with the potential to reduce paper usage and time spent on grading.

A variety of game formats are presented in this book to facilitate differentiated instruction. Students can work independently, with a partner, or as part of a team, allowing the teacher to accommodate the diverse learning styles and levels of middle-school students.

Science Games and Puzzles is intended to:

- **promote science vocabulary building.** Reading and spelling high-utility science terms helps students learn the language of science. Students who are skillful in reading these words can read for comprehension without the challenge of word pronunciation.
- **increase student readability level.** Learning to read multisyllabic science words and understand their meanings increases the readability level of students.
- **facilitate concept development.** Gaining a greater understanding of the subject matter associated with physical, life, and earth science is an essential aspect of scientific literacy.

Science Games and Puzzles promotes student knowledge and understanding of science concepts. The puzzles, games and activities in this book are designed to strengthen scientific literacy and are correlated to the National Science Education Standards (NSES).



Name: _____ Date: _____

Scientific Method Vocabulary Code Puzzle

Directions: Decode the scientific method vocabulary words using the code below.

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
13	4	20	1	11	2	16	5	18	3	22	8	19	26	17	21	6	24	10	9	25	15	23	7	12	14

1. 21-24-11-1-18-20-9 _____
2. 19-11-13-10-25-24-11 _____
3. 20-17-26-9-24-17-8 _____
4. 13-26-13-8-12-14-11 _____
5. 11-7-21-11-24-18-19-11-26-9 _____
6. 1-13-9-13 _____
7. 21-24-17-20-11-1-25-24-11 _____
8. 20-8-13-10-10-18-2-12 _____
9. 11-7-13-19-18-26-11 _____
10. 5-12-21-17-9-5-11-10-18-10 _____
11. 20-17-26-20-8-25-10-18-17-26 _____
12. 17-4-10-11-24-15-11 _____
13. 20-17-26-10-9-13-26-9 _____
14. 24-11-20-17-24-1 _____
15. 24-11-10-11-13-24-20-5 _____



Word Bank

analyze
 research
 measure
 procedure
 experiment

conclusion
 hypothesis
 data
 classify
 examine

predict
 control
 observe
 constant
 record

Name: _____ Date: _____

Scientific Equipment Vocabulary Code Puzzle

Directions: Decode the scientific equipment vocabulary words using the code below. Note: A slash mark “/” indicates that there are two words in the puzzle.

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
13	4	20	1	11	2	16	5	18	3	22	8	19	26	17	21	6	24	10	9	25	15	23	7	12	14

1. 4-11-13-22-11-24 _____
2. 9-5-11-24-19-17-19-11-9-11-24 _____
3. 19-18-20-24-17-10-20-17-21-11 _____
4. 2-17-24-20-11-21-10 _____
5. 4-13-24-17-19-11-9-11-24 _____
6. 16-24-13-1-25-13-9-11-1 / 20-12-8-18-26-1-11-24 _____
7. 4-13-8-13-26-20-11 / 10-20-13-8-11 _____
8. 13-26-11-19-17-19-11-9-11-24 _____
9. 20-17-15-11-24-10-8-18-21 _____
10. 9-11-8-11-10-20-17-21-11 _____
11. 19-13-16-26-11-9 _____
12. 9-11-10-9 / 9-25-4-11 _____
13. 19-13-16-26-18-2-12-18-26-16 / 16-8-13-10-10 _____
14. 19-11-1-18-20-18-26-11 / 1-24-17-21-21-11-24 _____
15. 10-21-24-18-26-16 / 10-20-13-8-11 _____

Word Bank

spring scale
 beaker
 magnifying glass
 forceps
 medicine dropper

barometer
 magnet
 test tube
 microscope
 coverslip

thermometer
 balance scale
 telescope
 anemometer
 graduated cylinder

Name: _____ Date: _____

Scientific Measurement Vocabulary Code Puzzle

Directions: Decode the scientific measurement vocabulary words using the code below. Note: A slash mark “/” indicates that there are two words in the puzzle.

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
13	4	20	1	11	2	16	5	18	3	22	8	19	26	17	21	6	24	10	9	25	15	23	7	12	14

1. 22-18-8-17-16-24-13-19 _____
2. 10-11-20-17-26-1 _____
3. 8-18-9-11-24 _____
4. 20-11-26-9-18-19-11-9-11-24 _____
5. 20-11-8-10-18-25-10 _____
6. 19-11-9-11-24 _____
7. 22-11-8-15-18-26 _____
8. 16-24-13-19-10 _____
9. 2-13-5-24-11-26-5-11-18-9 _____
10. 26-11-23-9-17-26 _____
11. 19-18-8-8-18-19-11-9-11-24-10 _____
12. 19-18-8-8-18-8-18-9-11-24-10 _____
13. 20-25-4-18-20 / 19-11-9-11-24 _____
14. 22-18-8-17-19-11-9-11-24 _____
15. 10-6-25-13-24-11 / 19-11-9-11-24-10 _____

Word Bank

Fahrenheit
Kelvin
grams
liter
kilogram

second
millimeters
centimeter
newton
Celsius

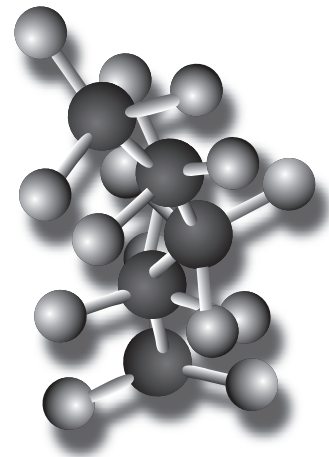
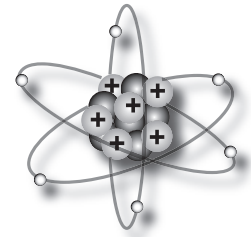
square meters
kilometer
cubic meter
meter
milliliters

Name: _____ Date: _____

Matter Word Scramble

Directions: Unscramble the science terms below. Some terms may have more than one word. Use the word bank if you need help.

- 1. TEEELMN _____
- 2. OTORPN _____
- 3. SEULCNU _____
- 4. PLRAOCPIEMRETHYC _____
- 5. FOSMTAATTTEER _____
- 6. CADI _____
- 7. NNEORTU _____
- 8. TMAO _____
- 9. SAEB _____
- 10. TLEECNOR _____
- 11. TERYPPROLAICHSY _____
- 12. MDOCNPUO _____
- 13. URLTAEN _____
- 14. ASMS _____
- 15. TPAEBRLIEOIDC _____



Word Bank

acid
state of matter
electron
element
mass

Periodic Table
base
nucleus
compound
physical property

proton
neutron
atom
neutral
chemical property

Name: _____ Date: _____

Chemistry Word Scramble

Directions: Unscramble the science terms below. Some terms may have more than one word. Use the word bank if you need help.

1. LESNOTV _____
2. TRETACAN _____
3. TCEDNOONREHTIMRAECI _____
4. PENSSSNIUO _____
5. TANSUBCES _____
6. SEDRATTUA _____
7. LUOSET _____
8. TOXETCAHIMCONREREI _____
9. GOOHOXMENSEUMTIREU _____
10. MATQHUECINCELAIO _____
11. PODNUMCO _____
12. FEMMCICHULAROLA _____
13. GEEEEHOO TNIXMUTRUSR _____
14. NALCATREMHOIIECC _____
15. TONSOU LI _____



Word Bank

suspension
 solution
 heterogeneous mixture
 saturated
 solvent

reactant
 chemical reaction
 solute
 exothermic reaction
 chemical equation

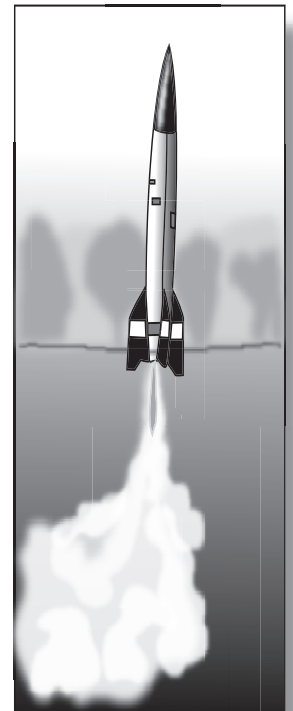
substance
 homogeneous mixture
 compound
 endothermic reaction
 chemical formula

Name: _____ Date: _____

Force and Motion Word Scramble

Directions: Unscramble the science terms below. Some terms may have more than one word. Use the word bank if you need help.

- 1. TINREIA _____
- 2. RITVAGY _____
- 3. KOWR _____
- 4. PESED _____
- 5. MUMMNOTE _____
- 6. SASM _____
- 7. TICFNORI _____
- 8. WOOMFOOTNIWLSANNSET _____
- 9. HITGEW _____
- 10. YBOYNUAC _____
- 11. LALFEERF _____
- 12. MIASCPLEEMNIH _____
- 13. CARONCEELATI _____
- 14. SUPSRREE _____
- 15. HOMPDUCOAMCNNIE _____



Word Bank

speed
weight
Newton's Laws of Motion
friction
inertia

work
momentum
acceleration
free fall
buoyancy

gravity
simple machine
compound machine
pressure
mass