

# Table of Contents

<b>Introduction</b> . . . . .	5	<b>Math</b>	
<b>Overview</b> . . . . .	8	<i>Money</i>	
<b>Language Arts</b>		The Value of Art. . . . .	64
<i>Persuasion</i>		Strike It Rich! . . . . .	66
A New Product . . . . .	22	Change for Fifty Cents. . . . .	67
<i>Journalism and Editing</i>		The Value of Words . . . . .	68
Interviews . . . . .	24	<i>Word Problems</i>	
Editing . . . . .	25	Solve These If You Can!. . . . .	69
Class Newsletter. . . . .	29	Solve My Problems, If You Can! . . . . .	70
<i>Creative Writing</i>		Cookie Math . . . . .	71
Writer's Guide . . . . .	32	<i>Measurements</i>	
<i>Story Writing</i>		Metric System . . . . .	72
Story Starters . . . . .	37	Customary System . . . . .	73
Story Scramble Cards. . . . .	39	New System. . . . .	74
<i>Literary Devices</i>		Comparing Systems . . . . .	75
Metaphors . . . . .	43	Measuring Without a Ruler . . . . .	76
I Feel As Silly As. . . . .	44	Measurement Challenge. . . . .	77
<i>Letter Writing</i>		<i>Patterns</i>	
Letter Form . . . . .	45	Drawing to Scale . . . . .	79
Writing a Letter . . . . .	46	Prime Time . . . . .	80
Pen Pal Pointers . . . . .	47	Tangrams . . . . .	81
<i>Journals</i>		Symmetry . . . . .	84
Journal Writing . . . . .	48	More Symmetry . . . . .	85
Journal Starts . . . . .	49	<i>Computing</i>	
<i>Vocabulary, Spelling, and Punctuation</i>		Addition and Subtraction . . . . .	86
Vocabulary Concentration . . . . .	50	Multiplication and Division . . . . .	88
Spelling Quest . . . . .	52	Calculator Fun . . . . .	90
Center Dictionary. . . . .	53	More Calculator Fun . . . . .	91
Punctuation Concentration . . . . .	54	Money Maze . . . . .	92
<i>Book Reports</i>		Energy Facts . . . . .	93
Getting Ideas . . . . .	57	<i>Math Facts</i>	
You Choose! . . . . .	58	Math Trivia . . . . .	94
Animal or Human?. . . . .	59	More Math Trivia. . . . .	95
The Sequel. . . . .	60	Some More Math Trivia. . . . .	96
Finding Facts . . . . .	61	Even More Math Trivia . . . . .	97
Mapping the Matter . . . . .	62	<i>Graphing</i>	
		Our Personal Surveys. . . . .	98

# Table of Contents

## *Brain Teasers*

What is the Message? . . . . .	100
Scrambled Math. . . . .	101
Math True or False. . . . .	102
How Many? . . . . .	103

## **Science**

### *Experiments*

Science Experiments Form. . . . .	105
The Sensational Submarine . . . . .	106
Rambunctious Raisins! . . . . .	109
You're Full of Hot Air! . . . . .	111

### *Sea Life*

What Is Under the Sea? . . . . .	112
Sea Life Phyla Chart . . . . .	113

### *Zoology*

Create a Zoo . . . . .	114
Native Australian Animals . . . . .	116
Animal Families and Groups . . . . .	117

### *Weather*

Amazing Weather Facts . . . . .	118
Alaskan Weather . . . . .	119
Create the Wind . . . . .	120
High or Low? . . . . .	121

### *Science Quest*

Science Trivia . . . . .	123
More Science Trivia. . . . .	124
Trivia Challenge. . . . .	125
Science True or False. . . . .	126
More Science True or False . . . . .	127
Scientific Names . . . . .	128
Science Clues. . . . .	129
Science ABCs . . . . .	130

### *Science Fun*

Matching the Sciences . . . . .	131
Insect Bingo. . . . .	134
Vertebrate and Invertebrate Animals . . . . .	138
Vertebrate and Invertebrate Animals Chart . . . . .	139

## **Social Studies**

### *Very Important People*

Famous Names. . . . .	141
Inventors and Their Inventions . . . . .	142
Louis Braille's Code. . . . .	143
Excellent Explorers . . . . .	144
Presidential First Names. . . . .	145
Famous Women . . . . .	146
Famous People. . . . .	147

### *Geography*

Countries of South America . . . . .	148
Test Your Map Skills . . . . .	149
Matching World Capitals . . . . .	152
Where Is It? . . . . .	156

### *History*

Black History Trivia. . . . .	158
American Holidays Trivia . . . . .	159
Social Studies Trivia . . . . .	160
More Social Studies Trivia. . . . .	161

### *Geographical Names*

This Map Is Making Me Hungry!. . . . .	162
Place Names of the World . . . . .	163
Nicknames and Capitals. . . . .	164
Puzzled About the States? . . . . .	165
Around the World. . . . .	166

### *Families and Friends*

My Family Tree . . . . .	170
Patchwork Quilts Kit . . . . .	174

## **Games and Puzzles**

### *Funnies*

You Must Be Joe King! . . . . .	178
Presidential Stumpers. . . . .	179
Letter Answers . . . . .	180
More Letter Answers . . . . .	181

### *Trivia*

Which Came First? . . . . .	182
States Ending in "A" . . . . .	183

# Table of Contents

## *Codes*

Morse Code . . . . .	184
Coded Message . . . . .	185
Proverbial Codes . . . . .	186
More Proverbial Codes . . . . .	187
Communicating in Code . . . . .	188

## *Wacky Words*

What Does This Mean? . . . . .	190
Rhyming Word Pairs . . . . .	191
More Rhyming Word Pairs . . . . .	192
Palindromes . . . . .	193
Palindrome Word Find . . . . .	194

## *Literary Fun*

Match That Author! . . . . .	195
Crazy, Mixed-Up Sentences . . . . .	197

## *Social Studies Fun*

Economics Game . . . . .	200
--------------------------	-----

## *Creative Puzzlers*

Color This Design . . . . .	207
I've Been Framed . . . . .	208
Hidden Meanings . . . . .	209
More Hidden Meanings . . . . .	210
Word Chains . . . . .	211

## *Puzzling Math*

Math Squares . . . . .	212
Factors and Multiples . . . . .	213
Improper Fraction Mix-Up . . . . .	214
Fractured Fractions . . . . .	215
Close the Box . . . . .	216
Decimal Derby . . . . .	217
Spaceship Flip . . . . .	218

## **Technology**

### *Introduction*

Utilizing the Internet . . . . .	221
Internet Safety Rules for Students . . . . .	222
Plan for Instruction . . . . .	223

## *Language Arts*

Create Your Own Advertisement . . . . .	224
Writing Good Descriptions . . . . .	225
Describing Physical Characteristics . . . . .	226
Describing Personality Traits . . . . .	227
Computer Poetry . . . . .	228

## *Science*

Properties of Matter . . . . .	233
Investigating Matter—Making Models . . . . .	236
The Nine Planets . . . . .	238
A Year in the Life of a Tree . . . . .	239

## *Math*

The Fraction Machine . . . . .	247
Fractions in a Box . . . . .	249
Mystery Squares . . . . .	251
It All Adds Up . . . . .	253
Not Your Average Board Game . . . . .	255

## *Social Studies*

Current Events . . . . .	258
Roving Reporter . . . . .	260
The Olympics . . . . .	261
The Ancient Olympic Games . . . . .	263
Egyptian Facts from the Internet . . . . .	264
Welcome to My Travel Agency . . . . .	266

<b>Center Signs</b> . . . . .	271
-------------------------------	-----

<b>Answer Key</b> . . . . .	286
-----------------------------	-----

# The Sensational Submarine

**Question:** Why does an eyedropper rise and fall in a bottle of water?

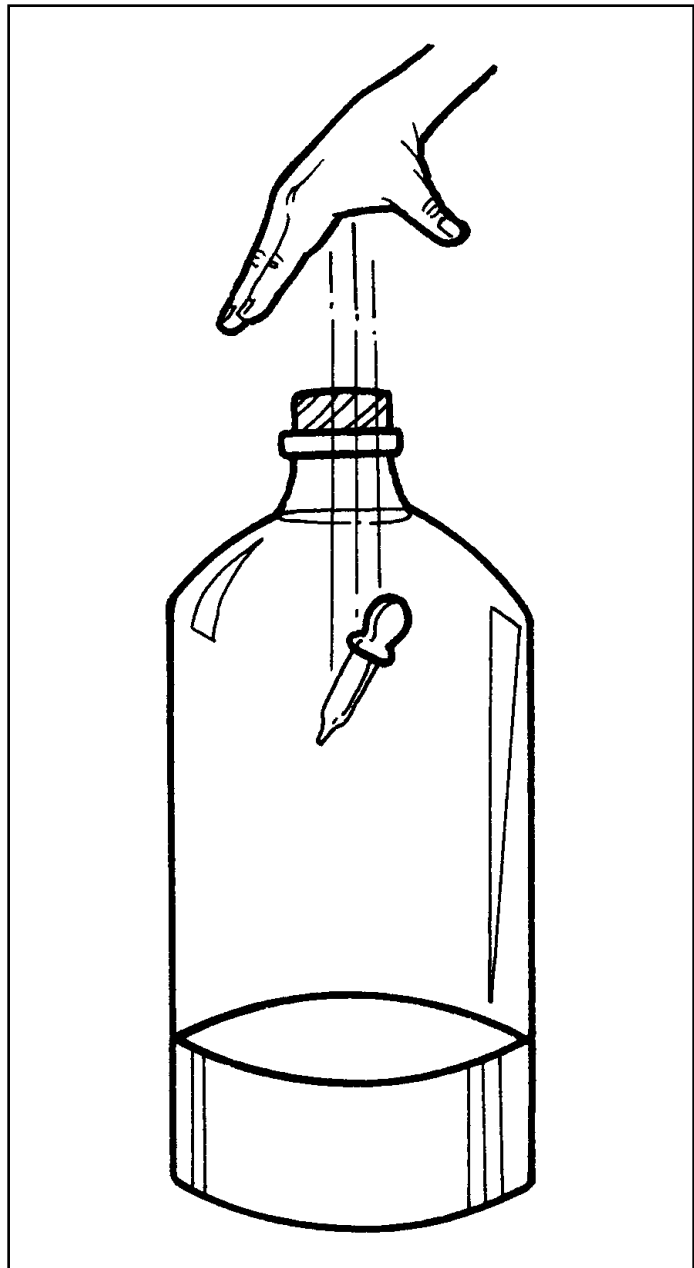
## Materials

- eyedropper
- empty 2-liter plastic soda bottle
- drinking glass
- water
- data-capture sheet (page 108)

## Procedure

(You may wish to demonstrate this activity first. Then allow students to try the experiment and complete the data-capture sheet at a center.)

1. Fill the soda bottle with water almost to the top. Fill the drinking glass with water.
2. Remove the rubber bulb from the eyedropper and place the dropper into the drinking glass of water. When the eyedropper (submarine) becomes full of water, place the rubber bulb back on but do not remove the eyedropper from the glass during this process. Remove the eyedropper from the glass and gently squeeze out enough water so that the dropper is two-thirds full.
3. Place the eyedropper in the bottle and screw on the cap tightly. (If the eyedropper goes to the bottom of the bottle but does not come back, there is too much water in the eyedropper. Conversely, if the eyedropper remains on the surface, there is not enough water in it.)
4. Observe the setup and ask students to make suggestions about how to get the “submarine” to move up and down inside the bottle.
5. Upon completion of the “brainstorming,” place both hands on either side of the soda bottle and squeeze. The eyedropper should fall to the bottom of the jug. When you release your hold, the eyedropper will climb back to the surface.



# Amazing Weather Facts

Make a special spot on a bulletin board or a chart called "AMAZING!"

Print or post a new, amazing fact in this spot each day. Read and discuss this amazing weather fact each day with your class.

**AMAZING!**

The Inuit made snow goggles 2,000 years ago!

**AMAZING!**

The ancient Japanese wore undershirts of bamboo to keep cool!

**AMAZING!**

There are 100 lightning flashes every second of every day!

**AMAZING!**

Droplets of water vapor in a cloud are so tiny you could fit about 15 million of them in one raindrop!

**AMAZING!**

Red and silver maples and poplar trees know when it's going to rain. They turn their leaves up.

**AMAZING!**

In England in 1881, it rained crabs and periwinkles!

**AMAZING!**

If we had no sun, we'd have no weather!

**AMAZING!**

Daytime on Venus is hot! It is 837°F!

**AMAZING!**

Daytime on Pluto is cold! It is -382°F!

**AMAZING!**

There is a building in Canada that is struck by lightning about 65 times a year!

**AMAZING!**

In Montreal in 1857, it rained live lizards!

**AMAZING!**

If a tornado travels over a lake or river, it can suck up strange things and drop them down later!

Sources: *Looking at Weather* by David Suzuki  
*Weather Watch* by Valerie Wyatt