

# The Elementary Education Subtests I and II ORELA

Oregon Educator Licensure Assessments  
NES (National Evaluation Systems)

## Prep Workshop





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# Training Day Agenda

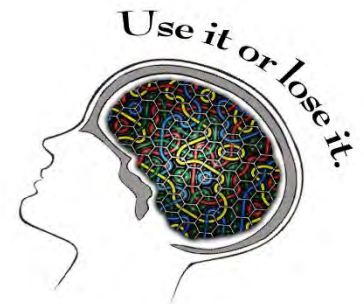
- ▶ Information about the test
- ▶ Website resources and scoring
- ▶ Preparation Overview
- ▶ Practice, Framework & Resources:2
- ▶ Practice, Framework & Resources:1
- ▶ Study Tips
- ▶ Test Anxiety
- ▶ Questions?
- ▶ End PROMPTLY at 12 noon!



# Your Training Packet



- ▶ Bundle A: Content Resources Galore!
- ▶ Bundle B: Elementary Education Exam Sample Questions & Framework Objectives (Subtest I & II)
- ▶ Bundle C: MSE (Multiple Subject Exam) Sample Questions (Section 4: Subtest II, Section 5: Subtest I)
- ▶ Bundle D: Test Anxiety, Multiple Choice Test Tips and Alternative Testing Arrangement Request Form
- ▶ Bundle E: MORE Practice Test Items



# Who Needs to Take this Exam?



Elementary & Middle  
Multiple Subject Teachers

SPED Teachers to be HQ in all core  
content for K-8 SPED Students

Licensure Questions: [teresa.ferrer@oregoned.org](mailto:teresa.ferrer@oregoned.org)

# Elementary Education Exam

Must pass both subtests (\$50 each, \$95 both)

*Computer-based: Can be taken at any time at Testing Center*

## ▶ Subtest I

- ▶ Two domains:
  - Reading & English Language Arts (62%)
  - Social Studies (38%)
- ▶ 75 Multiple choice questions
- ▶ 90 minutes
- ▶ Passing score: 227

## ▶ Subtest II

- ▶ Three domains:
  - Mathematics (50%)
  - Science (38%)
  - The Arts, Health & Fitness (12%)
- ▶ 75 Multiple choice questions
- ▶ 90 minutes
- ▶ Passing score: 228

# Sample Score Report

<b>TEST RESULTS</b>				
<b>Test</b>	<b>Test Date</b>	<b>Your Test Score</b>	<b>Oregon Standard</b>	<b>Status</b>
103 Elementary Education Subtest II	December 31, 2012	289	228	Pass
<b>Score Reporting</b>				
Your score has been released to the following state(s) and/or institution(s):				
State(s): Oregon				
Institution(s): None				

<b>TESTING HISTORY</b>				
<b>Highest Score as of January 11, 2013</b>				
<b>Test</b>	<b>Test Date</b>	<b>Your Test Score</b>	<b>Oregon Standard</b>	<b>Status</b>
103 Elementary Education Subtest II	December 31, 2012	289	228	Pass

**DIAGNOSTIC INFORMATION****Test**

103 Elementary Education Subtest II

**Test Date**

December 31, 2012

Domain/Competency	Number of Questions	Questions Correct	
<b>I. Mathematics</b>			
0001 Mathematical operations	8	100%	
0002 Mathematical problem solving	8	100%	
0003 Patterns, algebra, and functions	7	86%	
0004 Geometry and measurement	7	100%	
Total	30	97%	
<b>II. Science</b>			
0005 Life sciences	8	88%	
0006 Physical and Earth/space sciences	8	88%	
0007 Scientific inquiry	7	100%	
Total	23	91%	
<b>III. The Arts, Health, and Fitness</b>			
0008 Arts, health, and fitness	7	100%	
Total	7	100%	

0% 25% 50% 75% 100%

Percent Correct



<b>TEST RESULTS</b>				
<b>Test</b>	<b>Test Date</b>	<b>Your Test Score</b>	<b>Oregon Standard</b>	<b>Status</b>
102 Elementary Education Subtest I	December 31, 2012	249	227	Pass
<b>Score Reporting</b>				
Your score has been released to the following state(s) and/or institution(s):				
State(s): Oregon				
Institution(s): None				

<b>TESTING HISTORY</b>				
<b>Highest Score as of January 11, 2013</b>				
<b>Test</b>	<b>Test Date</b>	<b>Your Test Score</b>	<b>Oregon Standard</b>	<b>Status</b>
102 Elementary Education Subtest I	December 31, 2012	249	227	Pass

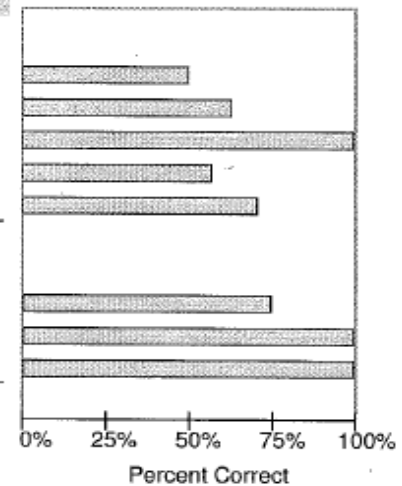
**DIAGNOSTIC INFORMATION****Test**

102 Elementary Education Subtest I

**Test Date**

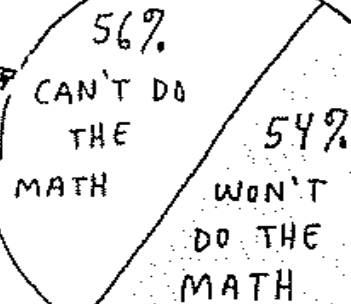
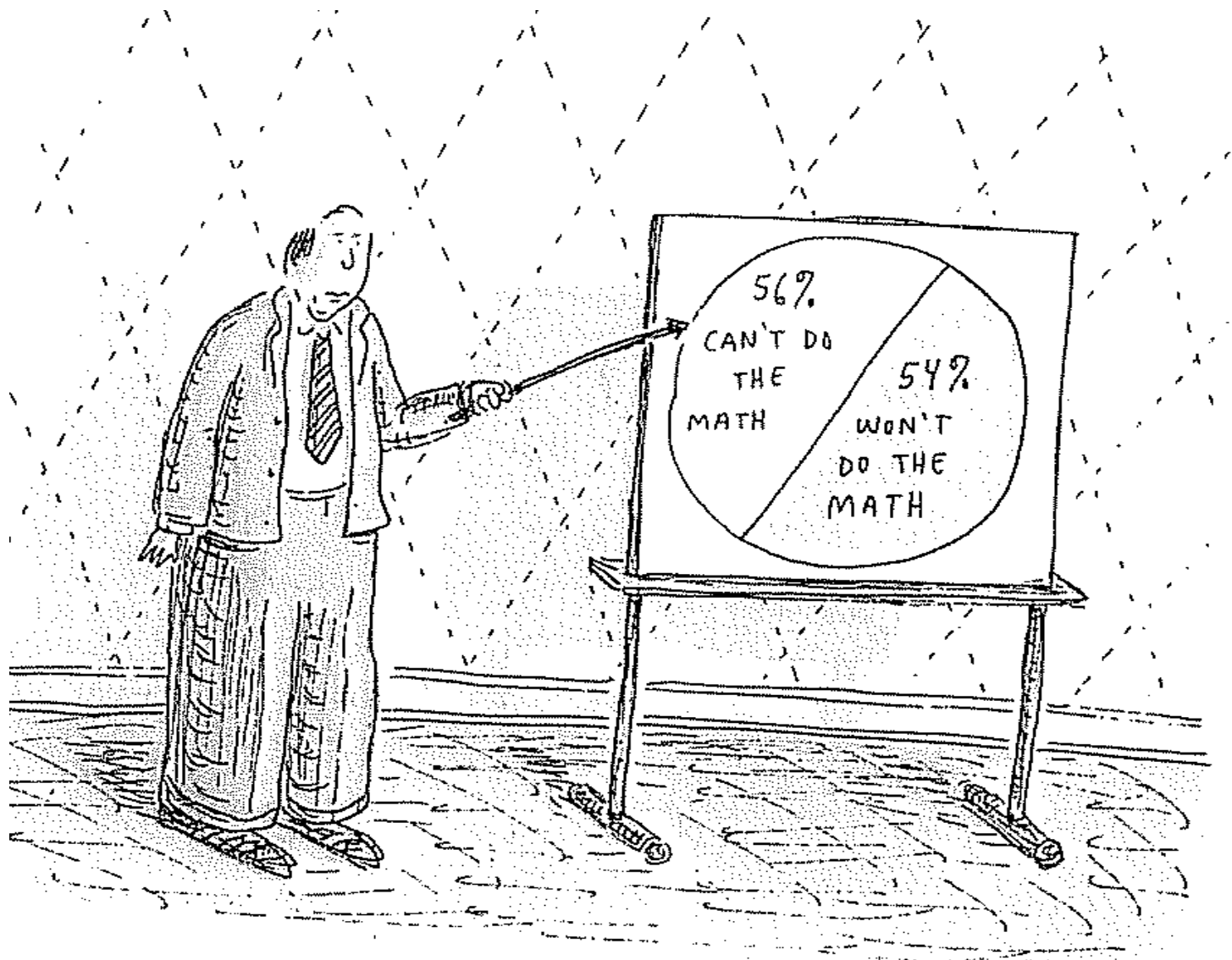
December 31, 2012

<b>Domain/Competency</b>	<b>Number of Questions</b>	<b>Questions Correct</b>
<b>I. Reading and English Language Arts</b>		
0001 Language development	8	50%
0002 Phonics, word analysis, fluency	8	63%
0003 Reading comprehension, vocabulary	7	100%
0004 Purpose of texts, graphic sources	7	57%
0005 Written and oral communication	7	71%
Total	37	68%
<b>II. Social Studies</b>		
0006 Government and economics	8	75%
0007 U.S. and world history	8	100%
0008 Geography and social studies	7	100%
Total	23	91%

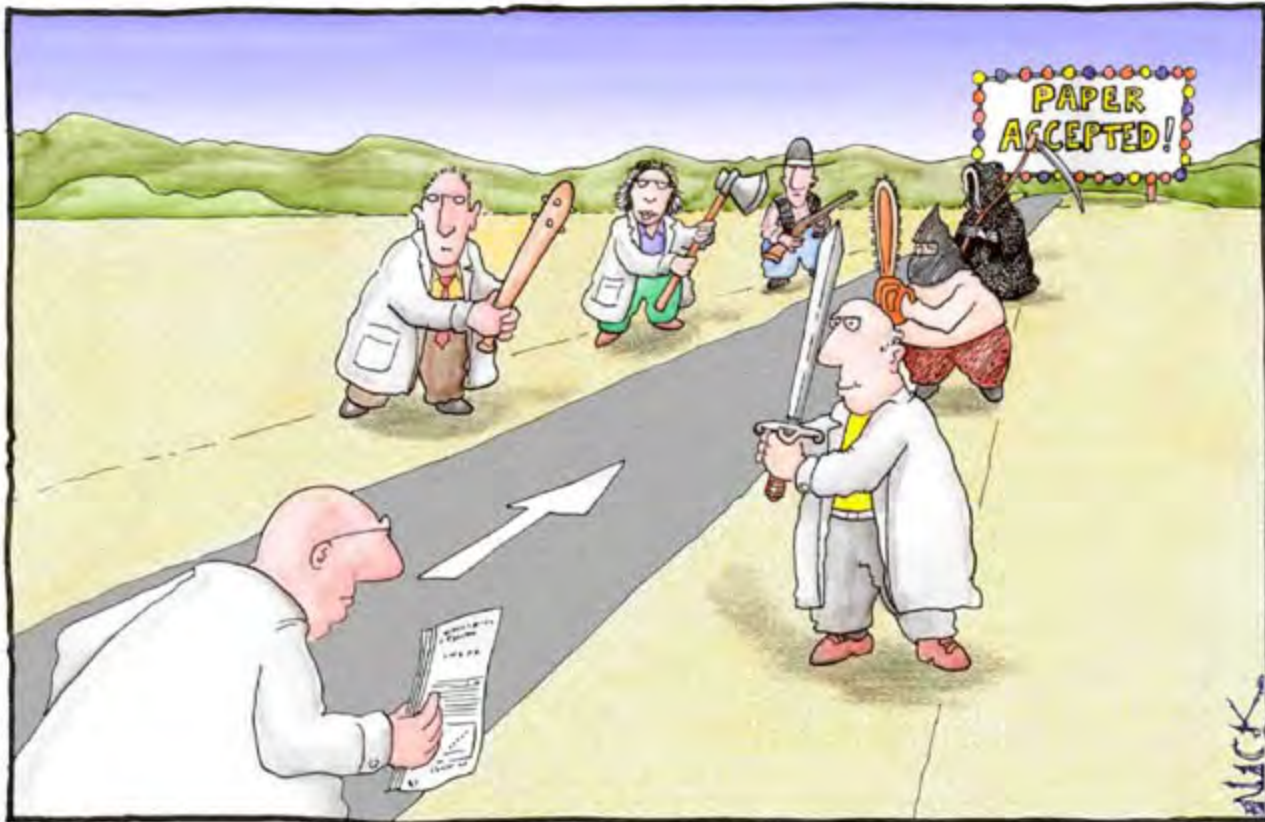


# Quick Online Exploration

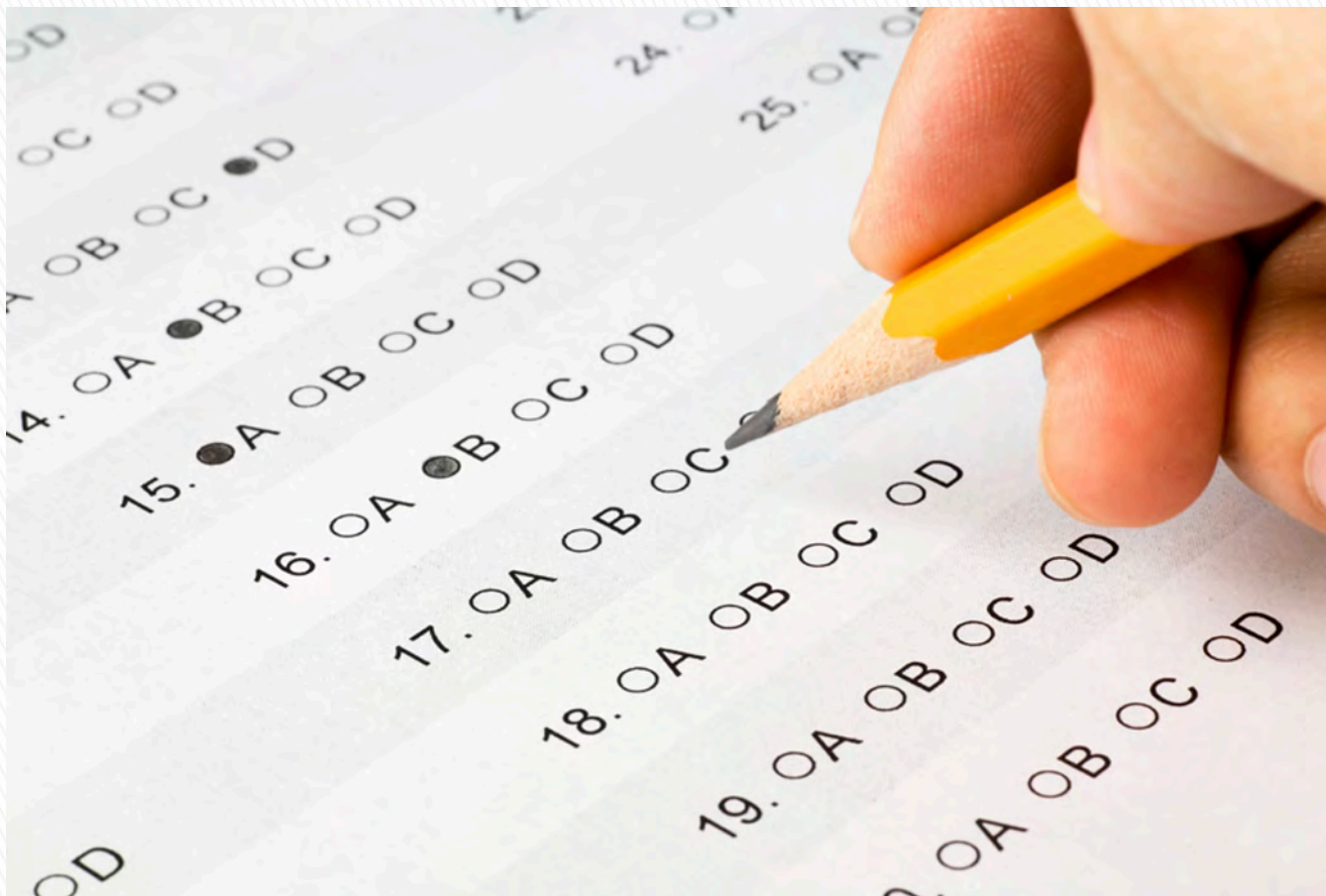
- ▶ <http://www.orela.nesinc.com/>
  - ▶ Format
  - ▶ Time
  - ▶ Test dates and sites
  - ▶ Passing score
  - ▶ Test fee
  - ▶ Score Reporting
  - ▶ Testing Policies
  - ▶ Preparation Materials



R. Clw<sup>s</sup>



Most scientists regarded the new streamlined peer-review process as 'quite an improvement.'



## Sample Subtest II Questions: Bundle C, Page 4-4



10 minutes

# When checking your answers...

- ▶ Each question is keyed to a specific objective at the top of the page
- ▶ Although they do NOT match the EEA test framework exactly, they are easily aligned
- ▶ Every time you miss or struggle with a question, check the similar objective in EEA test framework
- ▶ *You are now beginning to build a strategic study plan built around the objectives that your practice is identifying as “in need of attention”*
- ▶ *Refer back to the test domain percentages (slide #9) so that your study time is devoted to the areas that will give you the biggest bang for your buck*

# Subtest II: The NES Profile

## ▶ **Domain 1: Mathematics (50%)**

- 0001: Understand concepts of numeration, number sense & mathematical operations
- 0002: Understand mathematical reasoning & problem solving, communication & representation & data analysis
- 0003: Understand basic concepts of patterns, algebra & functions
- 0004: Understand basic concepts of geometry & measurement

## ▶ **Domain 2: Science (38%)**

- 0005: Understand fundamental concepts of the life sciences
- 0006: Understand the fundamental concepts of the physical, Earth & space sciences
- 0007: Understand the nature of science & the process of scientific inquiry

## ▶ **Domain 3: The Arts, Health and Fitness (12%)**

- 0008: Understand basic elements of the arts & fundamental concepts of health & fitness



# MSE Answers: Bundle C: Subtest II

## Multiple Subject Exam

1. C
2. B
3. C
4. D
5. B
6. C
7. D
8. D
9. D
10. B

Other answers: Page 4-25 Bundle C



# Let's Practice...

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**“Algebra class will be important to you later in life because there’s going to be a test six weeks from now.”**

# Misdirection

- ▶ A plumber charges a basic fee of \$35 per job and \$99 per hour for labor, which includes the \$32 per hour his assistant is paid. The plumber also charges customers for the cost of materials. Which of the following equations shows the total cost to the customer,  $c$ , of a 2 hour job with \$40 worth of materials.
- ▶ A.  $c = 35 + 2(99+40)$
- ▶ B.  $c = 35 + 2(99) + 40$
- ▶ C.  $c = 2(35 + 99 - 32)$
- ▶ D.  $c = 2(35 + 99 + 32 + 40)$

# Bicycle and Tricycles

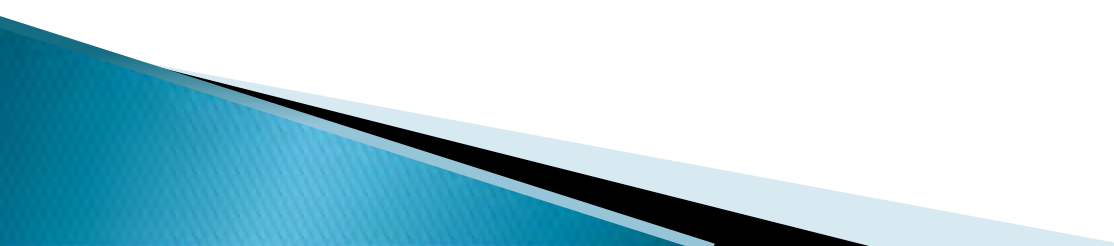
During a bicycle and tricycle race two students sitting at a desk see 7 heads and 19 wheels go by a window. How many bicycles and tricycles went by the window?

Algebra solution: solve the system by addition or substitution

$$\begin{aligned}B + T &= 7 \\2B + 3T &= 19\end{aligned}$$

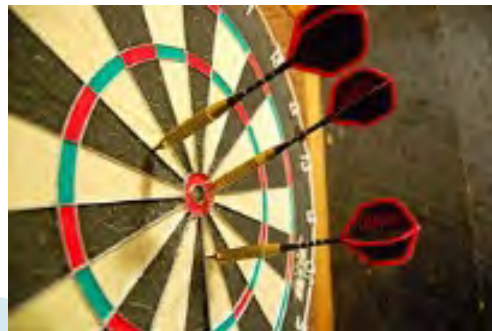
# Bicycles and Tricycles

## A Picture Solution

- ▶ 1. Draw seven circles – representing the seven heads.
  - ▶ 2. Since bicycles and tricycles each have at least two wheels, attach two wheels to each circle (head).
  - ▶ 3. How many wheels did you use? 14, leaving 5 wheels to distribute.
  - ▶ 4. Distribute the 5 wheels.
  - ▶ 5. End results: 2 bicycles and 5 tricycles.
- 

# “What is the question asking?”

- ▶ Which of the following is a *fundamental principal* that underlies the *practice* of science?
  - A. Scientific discovery is based on intuition and good luck.
  - B. Scientific research creates a base of knowledge that is free of personal or cultural bias.
  - C. Scientific knowledge is limited to observable facts and phenomena.
  - D. Scientific understanding is based on the accumulation and interpretation of evidence.



Which dart is closest to the center? Base calibration to best answer from the question itself...not just your opinion.

# Mnemonic Strategies for Math/Science

## ▶ ***PEDMAS:***

- **P**aranthesis, **E**xponent, **D**ivision, **M**ultiplication, **A**ddition, **S**ubtraction (order of operations)

## ▶ ***King Henry Died By Drinking Chocolate Milk:***

**K**ilo, **H**ecto, **D**eka, **B**ase, **D**eci, **C**enti, **M**illi (basic prefixes in metric system from largest to smallest)

## ▶ ***I Value Xylophones Like Cows Dig Milk:*** I=1, V=5, X=10, L= 50, C=100, D=500, M=1,000).

## ▶ ***My Very Educated Mother Just Served Us Nachos*** (used to be “Nine Pizzas” instead of “Nachos”...why?):

- **M**ercury, **V**enus, **E**arth, **M**ars, **J**upiter, **S**aturn, **U**ranus, **N**eptune (order of planets from sun)

## ▶ ***Roy G. BIV:***

- **R**ed, **O**range, **Y**ellow, **G**reen, **B**lue, **I**ndigo, **V**iolet (colors of the rainbow out to in)

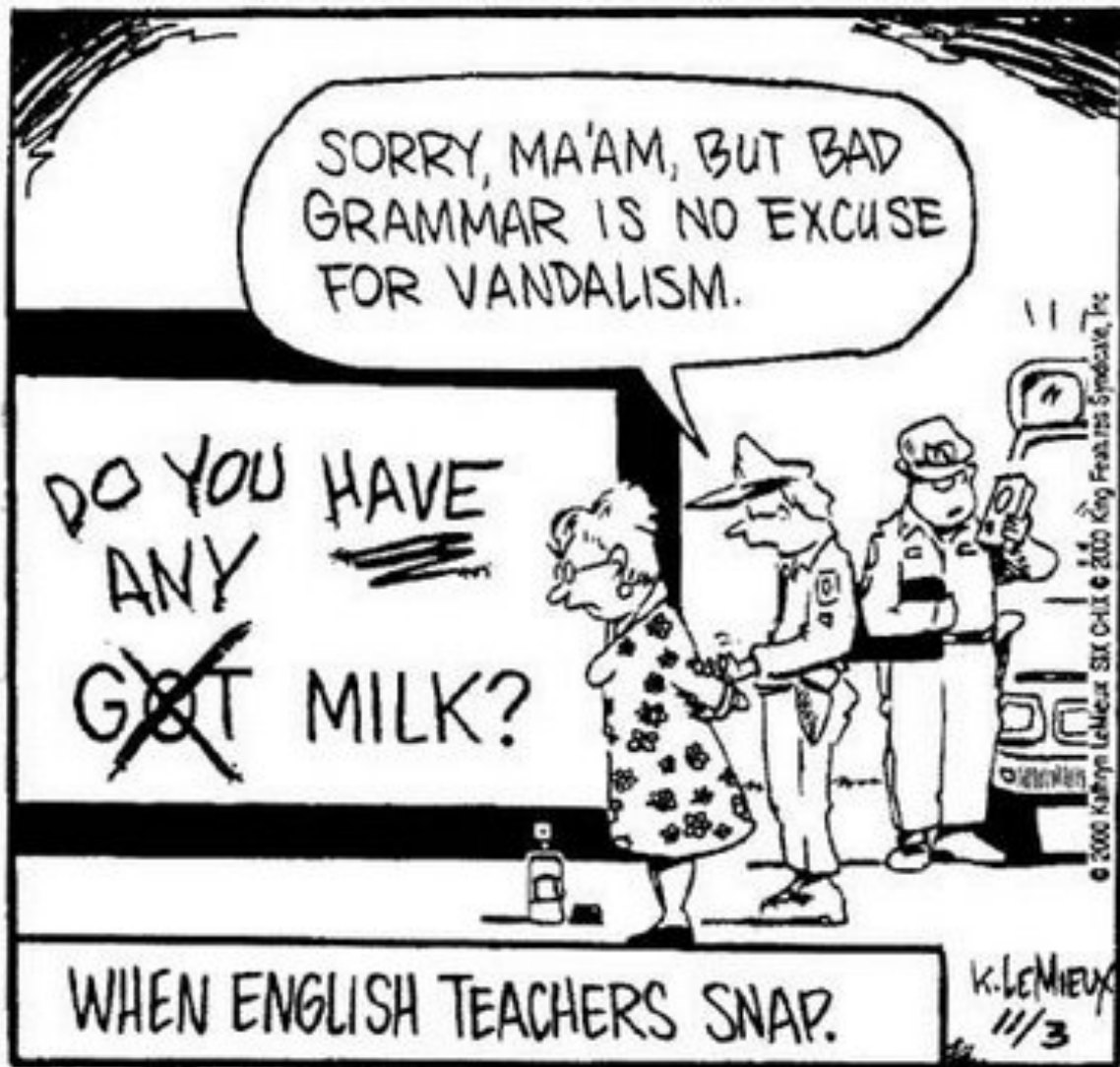
## ▶ ***Dear King Phillip Came Over For Ginger Snaps:***

- **D**omain, **K**ingdom, **P**hylum, **C**lass, **O**rders, **F**amily, **G**enus, **S**pecies (biological classifications)

# Math & Science Resources in Bundle A

- ▶ Page 1: “Standard Deviants” great for general understanding of complex math concepts
- ▶ Page 2:
  - Khan Academy, Interactive Math Tutorials Online, Geography for Kids, Bill Nye the Science Guy, Science of Disney Imagineering, 7<sup>th</sup> and 8<sup>th</sup> grade math & science textbooks
- ▶ Page 4 & 5: Unit of measurements & Common fractions with decimals & %
- ▶ Page 6 & 7: Geometry Formulas
- ▶ Page 8: Math symbols
- ▶ Pages 10–17: Number Patterns Tutorial
- ▶ Pages 18 & 19: Types of animals/simple machines
- ▶ Pages 21–24: Scientific inquiry/process
- ▶ Pages 25–35: Terms & Elements of Dance, Music, Visual Arts & PE





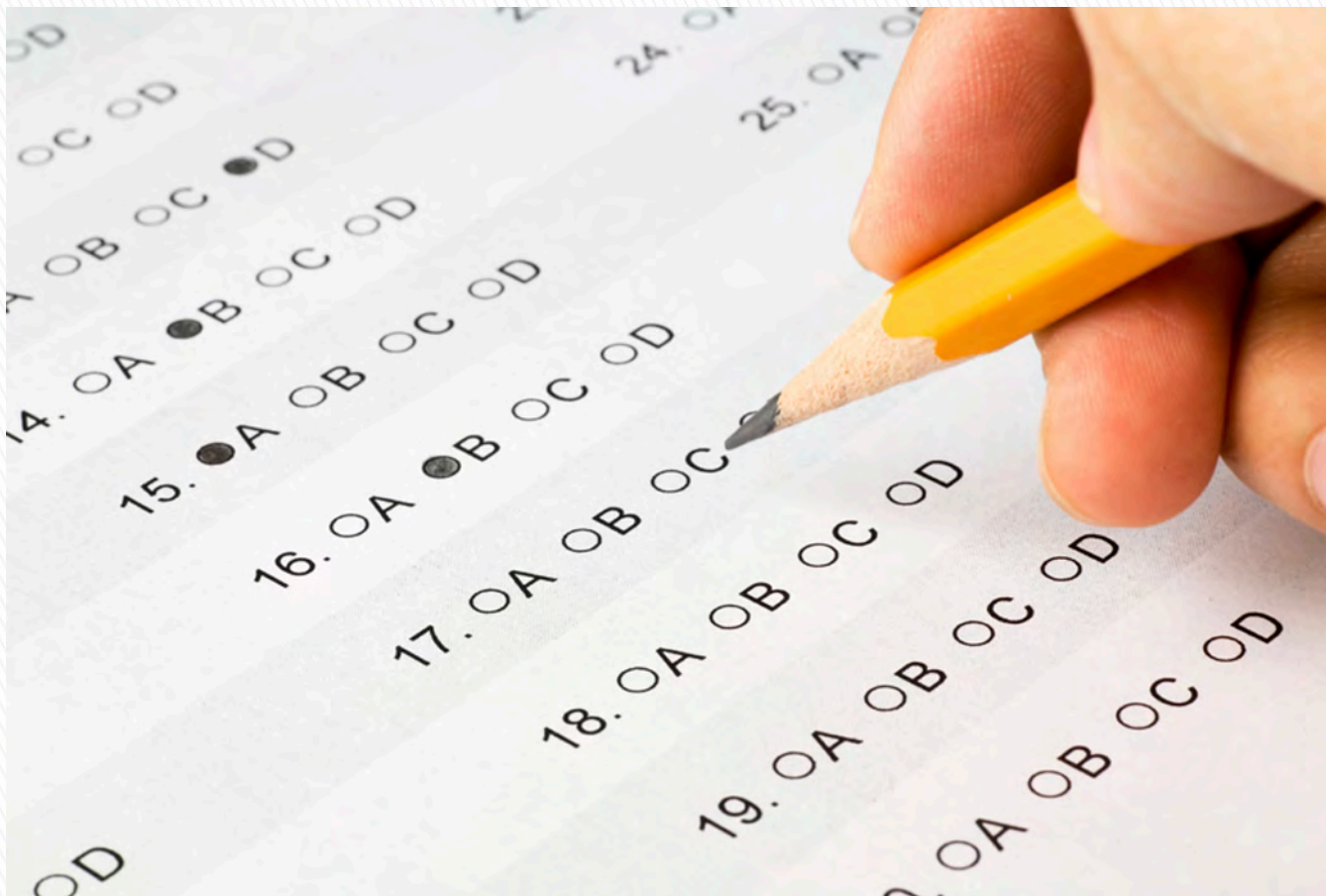
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**“It’s called ‘reading’. It’s how people  
install new software into their brains”**



**"My social studies teacher told me I will have to take the course over again in summer school. I guess history does repeat itself."**



## Sample Subtest I Questions: Bundle C, Page 5-4 (after slip sheet)



10 minutes

# When checking your answers...

- ▶ Each question is keyed to a specific objective at the top of the page
- ▶ Although they do NOT match the EEA test framework exactly, they are easily aligned
- ▶ Every time you miss or struggle with a question, check the similar objective in EEA test framework
- ▶ *You are now beginning to build a strategic study plan built around the objectives that your practice is identifying as “in need of attention”*
- ▶ *Refer back to the test domain percentages (slide #9) so that your study time is devoted to the areas that will give you the biggest bang for your buck*

# Subtest I: The NES Profile

## ▶ **Reading and English Language Arts (62%)**

- 0001 Understand foundations of language development and emergent literacy.
- 0002 Understand development of phonics, word analysis, spelling, and fluency.
- 0003 Understand reading comprehension and vocabulary skills.
- 0004 Understand literary, informational, persuasive, and functional texts, and graphic sources.
- 0005 Understand the processes, conventions, and modes of written and oral communication.

## ▶ **Social Studies (38%)**

- 0006 Understand fundamental concepts related to government and economics.
- 0007 Understand fundamental concepts and major developments related to U.S. and world history.
- 0008 Understand fundamental concepts related to geography and methods of social studies inquiry.

# MSE Answers: Bundle C: Subtest I

## Multiple Subject Exam

1. A
2. A
3. A
4. A
5. A
6. D
7. A
8. A
9. D
10. A

Other answers: Page 5-23 Bundle C



# Let's Practice...

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"How expensive would it be to just skip practice and get right to perfect?"



# Key Words & “What other questions could they ask?”

- ▶ 2. For a persuasive speech, which of the following techniques could a speaker use most effectively to create an orderly and logical presentation of evidence?
  - A. outlining
  - B. brainstorming
  - C. semantic mapping
  - D. researching

What about:

- ✓ creative/innovative presentation?
- ✓ highly factual, accurate presentation?
- ✓ cohesive, broad based presentation?

# Logic, Context, and Vocabulary

- ▶ Which of the following events in US history most significantly influenced John Steinbeck's writing of *The Grapes of Wrath* and *Of Mice and Men*?
  - A. the rise of the Jazz Age, which reflected the country's growing prosperity and optimism.
  - B. the Great Migration, which created the first large African American communities in the North.
  - C. the rise of the labor movement, which promoted a greater awareness of workers' rights.
  - D. the Great Depression, which caused the westward migration of impoverished farmers.

- ✓ Steinbeck likely a Caucasian man (eliminate B)
- ✓ Titles suggest struggle, perhaps agriculture (eliminate A, focus on D)
- ✓ Where is your literature knowledge? Jazz age: F. Scott Fitzgerald's *Great Gatsby*, Underground railroad: Harriet Beecher Stowe's *Uncle Tom's Cabin*

# Misdirection, Vocabulary, 3 Part Question, Focus on Question

- ▶ Part 1: Read the questions below, asked by a first grade teacher, then answer the question that follows.
- ▶ Part 2: “What is the first sound you hear when I say the word TOP? What is the last sound you hear when I say the word BAG? When I say the words DEEP, KEEP and BEEP, what is the sound you hear in the middle of these words?”
- ▶ Part 3: A first grade teacher asks a group of students the questions shown above. These questions would be most effective for helping students develop the ability to:
  - A. Recognize alliteration (**repetition of initial phoneme in a series of words**) **page 37 Bundle A**
  - B. isolate phonemes (**the smallest unit of sound**) **page 47 Bundle A**
  - C. identify rhymes
  - D. blend sounds

- ✓ Misdirects you to A and C with rhyming words in 3<sup>rd</sup> question
- ✓ Do you know “alliteration” or “phonemes”?
- ✓ What do all three questions the teacher asked have in common?
- ✓ Question asks about 1<sup>st</sup> grade teacher & what all questions help students to do.

# Mnemonic Devices for LA/SS

- ▶ ***Pretty Dolls Rarely Ever Punch Criminals:*** Pre-Write, Draft, Revise, Edit, Publish, Celebrate (writing process)
- ▶ ***Papa N. Vic:*** Pronoun, Adverb, Preposition, Adjective, Noun, Verb, Interjection, Conjunction (parts of speech)
- ▶ ***Keep Calm At All Sporting Events:*** Knowledge, Comprehension, Application, Analysis, Synthesis, Evaluation (Blooms Taxonomy for Reading questions)
- ▶ ***SuperMan Helps Everyone:*** Superior, Michigan, Huron, Erie, Ontario (the great lakes from west to east)
- ▶ ***Large Elephants Jump Slowly and Sink Rapidly:*** Legislative, Executive, Judicial, Statehood, Amendment, Supremacy, Ratification (7 articles of the US Constitution)
- ▶ ***Will a jolly man make a jolly visitor?:*** George Washington, John Adams, Thomas Jefferson, James Madison, James Monroe, John Quincy Adams, Andrew Jackson, Martin Van Buren

# LA, Rdg & SS Resources in Bundle A

- ▶ Page 1: Language Arts and Reading:
  - 7<sup>th</sup> and 8<sup>th</sup> grade LA texts (literature as well as writing), Online interactive grammar games, literacy definitions, [teachervision.com](http://teachervision.com)
- ▶ Page 1: Social Studies:
  - 5<sup>th</sup>–8<sup>th</sup> grade SS texts, *The Century* by Peter Jennings, *We the People*, Kahn Academy, [Kidipede. Georgetownsd.org](http://Kidipede.Georgetownsd.org)
- ▶ Pages 36–59: Reading Pedagogy & Terms
- ▶ Pages 60–63 Literary Terms
- ▶ Pages 64 & 65: Genres of literature
- ▶ Pages 66–70: US Historical Timeline (look for world history timeline)
- ▶ Page 71: Major US Landforms

# What are the big lessons to learn?

- WHAT IS THE QUESTION ASKING? WHAT IS IMPORTANT AND NOT IMPORTANT IN THE QUESTION?
- WHAT IS THE LIKELY ANSWER TO EACH QUESTION FOR THIS EXAM AND TEST FRAMEWORK?
- WHAT ARE THE KEY WORDS THAT WILL HELP ME ZERO IN ON THE BEST ANSWER?
- CALM DOWN, STEP BACK & USE YOUR CRITICAL THINKING SKILLS.



- ❖ AM I STUDYING DEEPLY ENOUGH FOR MATH?
- ❖ AM I STUDYING BROADLY ENOUGH FOR EVERYTHING ELSE?
- ❖ WHAT OTHER QUESTIONS ARE EMBEDDED IN EACH PRACTICE QUESTION?
- ❖ AM I BUILDING MY CRITICAL THINKING SKILLS AS MUCH AS MY CONTENT KNOWLEDGE?
- ❖ AM I USING A VARIETY OF MEDIA TO STUDY BROADLY? AM I ENJOYING THE LEARNING? AM I STUDYING WITH A BUDDY OR SHARING MY LEARNING?

You know more  
now...then when you  
walked in here!  
It all makes a  
difference!

Just dive in?  
You already have!



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search ID: mbcn689

"I've gotten over my fear of tests, but now I seem to have developed studying anxiety."



**STOP BEING AFRAID**  
of what could go wrong

-----**AND**-----


**FOCUS**  
on what could go right

YOU ARE ON THE JOURNEY...and it  
makes you a better teacher!



What you enjoy becomes imbedded.  
Find some fun in it and it will stay with you!

# Example of Study Plan

- ▶ Plan out your time (minimal one month)
  - ▶ Take one subtest at a time, first one might be the one you are most likely to pass
  - ▶ Review what you know and don't know from framework and practice questions
  - ▶ Strategically use resource materials for biggest bang
  - ▶ Use study group or study buddy
  - ▶ Go specific in math and broad in other areas
  - ▶ Consistent and ongoing study time
  - ▶ Intentionally practice testing skills
- 

# 6 Tips for Overcoming Performance & Test Anxiety

1. Identify your symptoms
2. Develop healthy strategies to stave off symptoms
3. Use visualization techniques / practice
4. Practice self-compassion
5. Reframe
6. Seek help



# Questions?



Contact OEA :  
teresa.ferrer@oregoned.org

When you pass your exam. We want to congratulate you

AND...



Ask you what worked, what useful study materials you found, tips you want to share, parts of the exam we didn't help you with and anything else that we can use to make this prep workshop and resources better.

*Please*

**THANK YOU**