

6-12 English Language Arts & K-12 Mathematics Instructional Materials Review Objection Form #4797412

Objection initiated by: Community Member

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Objection #1

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2
PageNumber: 1-468
ObjectionBased: Error
Objection: To CCSB and Dr. Kamela Patton:

Given my real-life job requirements (tutoring students and serving as a forensic expert witness), I was simply not able to put as much time as I had hoped into reviewing math textbooks (outside of the formal review committee, of which I was not a member). As you know, I opted to serve on the language arts review committee, instead. This math review is totally on my own.

Since the textbooks that I reviewed initially -

Blitzer's "Algebra and Trigonometry - 7th edition"

and

Blitzer's "Stats in Our World - 3rd edition"

were removed from the listing of approved textbooks, I have not provided my comments on those books as part of this review. However, many of the comments were shared at recent school board meetings/hearings and I am prepared (and would welcome the chance) to submit these formally at a later date.

For this review (ending today, April 28, 2022), I focused on the "Algebra 2 Regular/Honors" by Savvas - https://assets.savvas.com/file-vault/flipbooks/floridareview/math/2023/FL_Math_Alq2_SE/.

I did not have time to review the formal instructional part of the books in detail. However, by skimming, I am not sure that the needed background material is presented. Rather, the book (even for honors students) seems to focus on mechanics (the how to solve problems). The derivation of how and why matrices work, why logarithms are even needed, and where certain equations came from (i.e. references) were missing. This type of solid subject building and the associated science, language, and applications is needed for students to advance in the mathematics curriculum.

There were many instances where the concept of variables was completely omitted and information was provided as "absolute." Simply stated, this is bad science and bad math.

There were two instances at the beginning of the book and at least one additional reference later on, that covertly suggested linkages to climate change. These were presented without full context, and could easily be interpreted as suggestive of a warming planet.

Finally, I did not find any overt references to SEL, CRT, or similar topics. However, there was one reference to using Benford's Law to evaluate election results and determine if the results were fraudulent. It appeared that the use of this Law was inappropriate for the task. However, even raising this concept in what I view as a basic math class was even more inappropriate.

I am submitting all of my specific comments under the rules provided by CCPS. However, I wanted to also provide this introduction so that you could understand my perspective.

Sincerely,

H Michael Mogil
Certified Consulting Meteorologist, math tutor, science-math writer

P.S. While not bias- or error-based, the following is noteworthy:

Chapter problems have headings (spoon-feeding and telling students about problem difficulty or focus); students need to figure this out on their own (thinking skills). Teachers may need to know this, but students surely don't.

Here are some of the problem headings"

Analyze and Persevere
Use Patterns and Structure
Higher Order Thinking (does that mean other problems are lower order thinking?)
Performance Assessment SAT/ACT Communicate and Justify Error Analysis Vocabulary Generalize Check For Reasonableness

Objection #2

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2
PageNumber: 34 and 36
ObjectionBased: Bias
Objection: Pgs34 and 36 are the only two topics presented in the book that suggest any suggested (subtle and covert) linkage to climate change.

Objection #3

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2
PageNumber: 152
ObjectionBased: Bias

Objection: Pg152 showcases stadiums - increasing capacity and cost. Design problem focuses on increasing seating. Cost is glossed over. Hence, students don't see \$450 million as anything of concern.

Objection #4

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2

PageNumber: 220

ObjectionBased: Bias

Objection: The wedding cake problem (#24) may be viewed by some as inappropriate. There are better ways to showcase volume (e.g., birthday cake, giant lasagna).

Objection #5

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2

PageNumber: 251

ObjectionBased: Error

Objection: Problem 27 shows a windsock to represent wind. Yet, aircraft fly at altitudes of 25K to 40K feet above ground level. There are no windsocks there.

Objection #6

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2

PageNumber: 257

ObjectionBased: Error

Objection: Topic 5 - Snack Shack problem seems to have little to do with the math being presented here. There's also a video involved. I can't see the video so it's difficult to evaluate the accuracy or relevancy of this introduction and the associated problems on page 292.

Objection #7

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2

PageNumber: 261

ObjectionBased: Error

Objection: The writers of this textbook went into science and failed.

Example 3B uses the outdated Fujita Scale. The mathematical formulation offered for the old scale seems to be in conflict with the information provided in reference 1. For the new scale, all ratings are done by damage indicators and engineering analysis, not a math formula. See links below.

<https://teachersinstitute.yale.edu/curriculum/units/2007/4/07.04.10/4>

A tornado is a very fast wind vortex, usually about 20 feet wide, extending downward from a cloud. The wind speeds in a tornado are among the fastest wind speeds measured (Johnston, 2001, Scheidegger, 1975, Abbott, 2004). The common scale used to measure tornadoes is the Fujita scale, which is listed in Abbott, p295. The wind velocity and Fujita scale number are related by

the function $v = 6.3(F + 2)^{3/2}$, where v = wind velocity, F = Fujita scale number. This is the velocity as a square root function of the Fujita scale number. This relation can also express the Fujita scale number as a quadratic function of the wind velocity, although it involves a cube root: $F = (v^2 / 36.7)^{2/3} - 2$. Students will use this relation to find both velocity and Fujita scale numbers.

https://www.data.jma.go.jp/obd/stats/data/bosai/tornado/kaisetsu/guideline_en.pdf

<https://www.weather.gov/oun/efscale>

<https://www.spc.noaa.gov/faq/tornado/ef-ttu.pdf>

Objection #8

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2

PageNumber: 279

ObjectionBased: Error

Objection: This problem involves earth curvature and I am not sure that the formula provided correctly incorporates this. Note that page 292, problem 31 has a different equation for addressing distance to the horizon. Regardless, the height of the ship will have a bearing on whether or not it can be seen. Further, the formula seems to take into account the height of the person (but is this the height of the person or the height of the eyes?). The questions that I just raised address the context and learning that is omitted in these types of problems.

Objection #9

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2

PageNumber: 288

ObjectionBased: Error

Objection: The formula provided is an approximation to the BSA (many variables not incorporated). Such an assessment of variables is not shown; rather the formula is given as absolute. This negates what students do in science classes.

<https://askinglot.com/what-is-the-formula-for-body-surface-area>

Objection #10

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2

PageNumber: 290

ObjectionBased: Error

Objection: The formula is being applied absolutely. How "hot" is "hot?" Is the sun out? What clothing (or equipment) is the person wearing? Are any other medical issues to consider? The science is omitted, making the problem out of context.

Objection #11

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2

PageNumber: 316

ObjectionBased: Bias,Error

Objection: This involves a project in Topic 6. Final sentence talks about analyzing election results to determine which may be fraudulent. First, I'm not sure how Benford's Law fits here. Second, this is a quantum leap from the topics being discussed here. Finally, I don't see anything in the textbook that actually addresses the proposed activity, so it is impossible to judge whether or not it is appropriate. Why are the writers even suggesting that students look into fraudulent election results?

Objection #12

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2

PageNumber: 357

ObjectionBased: Error

Objection: Variables are not addressed. Forest fires don't necessarily spread uniformly, due to variables (i.e., terrain, wind, type of vegetation and its variability, and more).

Objection #13

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2

PageNumber: 415

ObjectionBased: Bias,Error

Objection: There is much wrong here. The text is not really clear about the difference between weather and climate. Time is THE factor, but a month or even a few years is not climate. The National Weather Service uses 30 years for "climatic normals," but climatologists generally refer to much longer time periods.

Task asks students to evaluate climate data for a month (actually weather data, given the short time period studied). That month is February. What data can solve the challenge? For City X or across the U.S? One variable or several? Precipitation type depends on precipitation and temperature. Further, one month is not climate.

This is not how meteorologists practice prediction. Gives a false sense of the science of meteorology.

Further, the Loma, MT temperature change is extreme (suggestive of a growing climate danger), but what is the probability of having a 20- to 30 -degree change routinely during "Chinook" wind conditions? It's actually pretty high.

<https://www.ncdc.noaa.gov/monitoring-content/extremes/ncec/reports/lomamontana.pdf>

Objection #14

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2

PageNumber: 1-468

ObjectionBased: Error

Objection: The page numbers shown in the index and at the bottom of each textbook page do not agree with the page numbers in the search tool at the bottom of the screen. This is because the

latter includes all of the ii, xi, and related intro pages. I used the page number provided in the search tool to provide references in this review.

Objection #15

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2

PageNumber: 1-468

ObjectionBased: Bias,Error

Objection: Members of our community are being asked to provide free review services to the publishers within this review process. I am certain that if we tally up the time we have collectively given, and charge a reasonable hourly rate for services rendered, that the publishers should be paying us many tens of thousands of dollars. There is something wrong with this process. To whom do I submit my invoice?

6-12 English Language Arts & K-12 Mathematics Instructional Materials Review Objection Form
#4038278

Objection initiated by: Community Member

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Objection #1

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12

PageNumber: Grade 6, Pages 1-951

ObjectionBased: Bias,Error

Objection: 1)McGraw Hill embraces Social Emotional Learning (attach detail from link), therefore should be disqualified or comply with a demand from CCPS to denounce SEL, CRT and all of its related tentacles. McGraw Hill embraces Social Emotional Learning (SEL) which is CRT

<https://www.mheducation.com/news-media/press-releases/new-k12-survey-social-emotional-learning-gains-prominence.html>

"Social and emotional learning is critical to a child's overall development, and teaching these skills at school can help students make responsible, constructive decisions both in and out of the classroom," said Heath Morrison, President of McGraw-Hill's School Group. "Increasingly, we also are seeing that effective SEL instruction can contribute to improvements in academic performance. By combining effective academic instruction with social and emotional learning, educators can help prepare their students to contribute positively to their future workplaces and the communities where they live."

Additional Link confirming McGraw Hill commitment to SEL

<https://medium.com/inspired-ideas-prek-12/making-social-and-emotional-learning-relevant-to-students-c1a232eff395>

Objection #2

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12

PageNumber: Grades 6, pages 1-951

ObjectionBased: Bias,Error

Objection: Obvious CCPS staff, Superintendent and Board Members are NOT qualified to assess CRT, SEL, Diversity, Equity, Inclusion, and Social Justice. Leadership failed in that the committees were not give a proper rubric and training which resulted in them and the Board missing at least 7 of 13 books adopted on March 29,yet rejected by the FL DOE. How are you competent to assess the remaining, especially ELA adopted last year by FL DOE when they admit their rubric missed both CRT and related SEL?

Objection #3

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12

PageNumber: Grade6, pages 1-951 3)McGraw Hill, ELA Grade 6: The entire textbook is a series of 78 short stories, excerpts from longer stories and poems. These give limited opportunity for children to sink their teeth into some of the great works like ?Little Women (

ObjectionBased: Bias,Error

Objection: McGraw Hill, ELA Grade 6: The entire textbook is a series of 78 short stories, excerpts from longer stories and poems. These give limited opportunity for children to sink their teeth into some of the great works like ?Little Women (included as an excerpt) and others on the FL DOE BEST Standards recommended list which are not included such as ?Acquainted with the Night? by Robert Frost, ?The adventures of Pinocchio? by Collodi and ?Treasure Island? by Stevenson

Objection #4

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12

PageNumber: Grade 6 pages 26,40,335,404,452,501,684,847

ObjectionBased: Bias,Error

Objection: There are no doubt some inspiring stories but there also stories with very questionable and age in-appropriate messaging for 6th graders. Examples:

page 1 ?Eleven? features a teacher falsely verbally abusing an 11 year old in front of her classmates, accusing her of being the owner of an old sweater?

Page 26 ?Scout?s Honor?- condones lying

Page 40 ?How Malcom learned to Read?- idolizes Malcom X page 335 ?Hatshepsut: His Majesty , herself?- undertones of LGBTQ (had pictures of herself

 painted as both a boy and girl-page 339) Page 404 ?Everybody Jump?-dark theme ?Is it actually physically possible, with the

 technology we currently have, to evacuate the planet??

Page 452 ?Tracking Down Typhoid Mary? -very dark Page 501 ?Priscilla and the Wimps? seems to condone physical violence when dealing with a

 bully and also demonstrated serious lack of adult involvement to prevent bullying.

Page 684 ?Charles? ? ?the day my son Laurie started kindergarten he renounced??

 strange story about a son named Laurie who had a dual personality as Charles-

 why is this age appropriate to 6th graders Page 847 ?Brave? is graphic novel which means 14

pages of cartoons about a teenage

 boy who dreams of saving the world

Objection #5

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12

PageNumber: Grade 6 pages

15,40,166,185,236,237,246,374,531,536,544,694,630,635,808,823,831,834,836,866,928,987

ObjectionBased: Bias

Objection: 5)There is a serious lack of balance for 6th graders regarding racial themes (22 of 78). Taken individually most of these stories are fine but the preponderance of the many stories about oppression,

slavery and race are meant to instill victims, oppression and guilt [All SEL and within the framework of CRT]:

Page 15 ?The Mighty Miss Malone? -racial theme Page 40 ?How Malcom learned to Read? -idolizes Malcom X Page 166 Rolling ?Thunder, hear My Cry? -features black oppression Page 185 ?Tableau? -- theme race and feelings(SEL) Page 236 ?The Circuit: Stories from the life of a Migrant Child?- racial theme and oppression Page 237 ?Stories from the life of a migrant child? -features oppression and feelings (SEL) page 246 ?A Poem of My Librarian, Mrs. Long?- again features race and oppression Page 374 ?Yet Do I Marvel? -racial overtones and says ?God Awful? Page 531 ?Incidents in the Life of a Slave Girl? -race and oppression Page 536 ?Harriett Tubman: Conductor on the Underground Railroad? -race and oppression Page 544 ?Freedoms Daughters: The Unsung Heroines of the Civil Rights Movements1830-1970? Page 604 ?A Story of the South? -race and oppression Page 630 ?Speech to National Council of Negro Women? -race and oppression Page 635 ?Warriors Don?t Cry? -race theme Page 808 ?Shree Bose: Never too Young to Change the World? -race and oppression Page 823 ?Letter to His Daughter? -racial theme Page 831 ?The Story Behind the Bus? ? racial theme Page 834 ?Rosa?- Race and oppression Page 836 ?Rosa Parks? -race and oppression Page 866 ? I Never had it Made: An Autobiography of Jackie Robinson? race and oppression Page 928 ?Middle School Loneliness? Race theme Page 937 ?Shakespeare in Harlem? -racial theme

Objection #6

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12

PageNumber: Grade 6 pages 179,292, 381

ObjectionBased: Bias

Objection: 6)Additional Stories emphasizing feelings vis-a-via social emotional learning Page 179 ?Teenagers? features feelings (SEL) Page 292 ?The Other Side? feelings (SEL) Page 381 ?I, Too? shame and guilt feelings [SEL]

Objection #7

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12

PageNumber: Grade 6 pages 1-951 There are alternatives

ObjectionBased: Bias,Error

Objection: A) Demand McGraw Hill renounce SEL. Specify which stories to be deleted and provide replacements, mitigating the racial theme unbalance and in-appropriate stories with more of the great classics from the B.E.S.T ELA Standards.

B) Obvious Solution: As a Florida school district (and DOE), all contracts with these publishers must contain a full and complete financial indemnification against any of these tentacles of CRT- money talks. Amend the FI DOE general contract or demand the DOE add full financial indemnification to its overall contract.

C) Don?t adopt and have your admin staff develop lesson plans around the 6th Grade B.E.S.T ELA reader list

D) Here are some excellent additional resources:

- Select excerpts and stories from ?Black History1619-2019? by Sandra Yocum and Francis Rice
- ?American Minute :Notable Events of American Significance? by William Federer
- Select excerpts and stories from ?The Original 13? by William Federer

- Select excerpts and stories from 'Original Intent' by David Barton
- 'Pilgrims to Patriots; Grandfather tells the story' by Alex Bugaeff
- 'Sovereign Duty' by KrisAnne Hall, a Florida Constitutional attorney and Arthur For better balance depicting contributions by blacks to our founding and growth as a nation: Below are a few short videos of some black Americans who achieved great success despite the evils of slavery or Jim Crow. There are many more such as Booker T. Washington, George Washington Carver, Colin Powell, Thurgood Marshall, Harry Hoosier, Phyllis Wheatley, Harim Revels, Richard Allen, Mary Bethune, Wilma Rudolph, Katherine Johnson etc. List provided by Nancy Randolph.

Junius G. Groves <https://www.youtube.com/watch?v=1slTmUEqGOY>

Madam CJ Walker - First Female Millionaire: <https://www.youtube.com/watch?v=8wBh4engj5g>

Black man owned his own car company 100: <https://www.youtube.com/watch?v=DJmsl-sHFdU>

Maggie Lena Walker - First Black Female Bank Owner:

<https://www.youtube.com/watch?v=QR3CexPZXEk>

First Black Billionaire: <https://www.youtube.com/watch?v=fEJk6xTHdQ>

A small few of hundreds of black inventors: <https://www.youtube.com/watch?v=F-SmBEL2f4Y>

List of Some Black Inventors: <https://interestingengineering.com/the-a-z-list-of-black-inventors>

6-12 English Language Arts & K-12 Mathematics Instructional Materials Review Objection Form
#8618556

Objection initiated by: Community Member

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Objection #1

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12
PageNumber: 25 Grade 8
ObjectionBased: Bias
Objection: Monster - Story contains racial oppression, rape, violence, murder, suicide and drugs

Objection #2

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12
PageNumber: 35
ObjectionBased: Bias
Objection: Sympathy - Poem about slavery, racial segregation and social discrimination; meant to evoke sympathy as well as guilty

Objection #3

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12
PageNumber: 52
ObjectionBased: Bias
Objection: The Lottery - Dark and disturbing dystopian novel about the ritualistic stoning to death of residents of a small town, via a lottery system

Objection #4

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12
PageNumber: 67
ObjectionBased: Bias
Objection: The Graveyard Story - Another dark and disturbing work of fiction about a boy raised in a graveyard, by spirits, after his whole family was brutally stabbed to death

Objection #5

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12

PageNumber: 97

ObjectionBased: Bias

Objection: The Conjure Man Dies - Yet another dark murder mystery; on its own, not necessarily alarming, but the quantity of dark themed content is, considering the declining mental health of young people.

Objection #6

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12

PageNumber: 104

ObjectionBased: Bias

Objection: The Monkey's Paw - Another of many dark, short horror stories involving the supernatural

Objection #7

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12

PageNumber: 238

ObjectionBased: Bias

Objection: Abuela invents the zero - Racial Identity and SEL

Objection #8

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12

PageNumber: 340

ObjectionBased: Bias

Objection: The Others - Social and socioeconomic oppression/victimization

Objection #9

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12

PageNumber: 350

ObjectionBased: Bias

Objection: Slam, dunk and hook - poem the author states is to "address the thorny issues of race, grief and power"

Objection #10

Textbook: McGraw-Hill LLC: Florida StudySync Grade, 6-12

PageNumber: 360

ObjectionBased: Bias

Objection: Michelle Obama - Commencement address to Santa Fe Indian School - "The U.S. Government thought the only options in dealing with Native Indians were to civilize them or to Exterminate them"

6-12 English Language Arts & K-12 Mathematics Instructional Materials Review Objection Form
#8501842

Objection initiated by: Community Member

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Objection #1

Textbook: Big Ideas Learning, LLC: Florida's B.E.S.T. Standards for Math Algebra 1 with CalcChat & Calc
PageNumber: 31, 51, 174, 227, 284, 305, 327, 525 and 551

ObjectionBased: Bias

Objection: All of the following excerpts are agenda driven examples and problems. There is a mostly not so subtle and pervasive argument driven by S.E.L., environmentalism, socio-economic and other biased attitudes and reasoning unrelated to the teaching of mathematics. The student is intentionally steered to form an opinion, not to solve a problem. In addition, in most cases there is insufficient data, or the science is undocumented or not settled. The authors and/or publishers should have refrained from injecting their own personal political views. The idea is to teach math, not political science. This is my specific objection, and it is based upon all of the examples below.

When reviewing each of the page excerpts below, it is important to see the illustrations accompanying them. I scanned them, but it is not possible to include them here, so you will need the text to accompany.

Page 31:

HOW DO YOU SEE IT? The circle graph shows the results of a survey of registered voters the day of an election. Which Party's Candidate will Get Your Vote? Democratic: 47%
Republican: 42% a. What does the survey predict are the minimum and maximum percents (sic) of voters who will vote Republican? Green ? b. Write absolute value equations to represent your answers in part (a). c. One candidate receives 44% of the vote. Which party do you think the candidate belongs to? Explain

Page 51:

- Explain what the diagram represents in your own words.
- Which state do you think has the highest life expectancy for lower-income people at age 40? Which state do you think has the lowest? Explain your reasoning.
- Which city do you think has a higher life expectancy for lower-income

- people at age 40, Detroit or Miami? Explain your reasoning.
- d. Write several other observations you can make from the diagram.
- e. Explain how you can represent one piece of information from the diagram graphically.
- f. INVESTIGATE Use the Internet or some other reference to find a real-life data set represented by a data display that uses inequalities.

Page 174:

Dr. Katey Walter Anthony measures the rate at which the permafrost in Alaskan lakes is thawing, causing a release of methane. Her data feeds into mathematical models that predict global warming, which inspire ideas to reduce it. One of the primary ideas for reducing global warming is to implement the use of renewable energy.

? What are the main ways that electricity is generated? Of these, which are classified as renewable energy?

? On a wind farm, how much electricity is produced per day by each turbine?

? How many homes does a typical wind turbine power?

Page 227:

DESIGN A WIND FARM

Write a proposal to government officials for a new wind farm in your county. Choose the amount of land that will be occupied by your farm and the power of the turbines. Use functions and graphs to show the cost of the turbines and the total power generated. Relate the energy output of the wind farm to the amount of energy used in a typical household.

Page 284:

The number of people infected by a virus can grow more and more quickly if immediate action is not taken. In the Performance Task, you will write a report for a health organization, forecasting the spread of an Ebola epidemic and recommending steps that can be taken to slow its spread.

Page 305:

Climate concerns, such as increasing sea level, are expected to decrease coastal property values in Florida and other states over time.

EXAMPLE 6 Modeling Real Life

A real-estate researcher estimates that a coastal property in Florida will lose about 10% of its value each decade from 2020 to 2050. The function $f(x) = 250(0.9)^x$ represents the estimated value (in thousands of dollars) of the property x decades after 2020.

- a. Graph f. Find the domain and range.
- b. What is the estimated decrease in property value from 2020 to 2050?

Page 327:

SERIAL INTERVAL: A measure of how long it takes an infected person to transmit a disease to the next "round" of people. A serial interval of 9 days means that about 9 days pass from when a person becomes contagious to when the next round of people become contagious. **EPIDEMIC!** A health organization confirms 200 new cases of Ebola. If no immunization is available, the virus will spread exponentially at first. Write a report for the health organization that details the spread of the virus if an immunization is not made available. Include equations for the possible numbers of confirmed cases and fatalities over time, as well as steps that can be taken to reduce the reproductive number.

Page 523:

Consider the solar jobs data in Example 2 and the circle graph showing the types of solar jobs in Florida in 2019. Tell whether the data in the circle graph are categorical or numerical, and univariate or bivariate. About how many more installation jobs are there than manufacturing jobs in 2019? Explain your reasoning.

Which statements about the data in the display are true?
Select all that apply.

- ?A The data are bivariate.
- ?C The number of jobs nearly doubled from 2015 to 2019.
- ?B The data are categorical.
- ?D The number of jobs increased by about 3000 from 2015 to 2019.

Page 525:

Analyzing Misleading Graphs

Data displays can be misleading. A misleading graph is a statistical graph that is not drawn appropriately. This may cause viewers to misinterpret the graph. Below are some questions you can ask yourself when analyzing a statistical graph that will help you recognize when a graph may be misleading.

- b. The scale on the vertical axis has very small increments that are not equal. Someone might believe that the greatest increase in the mean hourly wage occurred from 2018 to 2019, when the greatest increase actually occurred from 2016 to 2017.

Page 551:

MODELING REAL LIFE In a survey of 2000 U.S.

adults, 70% said that they would support a national policy requiring rooftop solar panels to be installed on all new homes. The margin of error is $\pm 2.2\%$.

a. Give an interval that is likely to contain the exact percent of all U.S. adults who would support this policy.

b. The population of adults in the U.S. is about 30.95 million. Estimate the number of adults who would support a national policy requiring rooftop solar panels.

Objection #2

Textbook: Savvas Learning Company LLC: enVision Florida B.E.S.T Algebra 2

PageNumber: 32, 65, 123, 218, 220, 225, 239, 240, 319, 347, 354 and 414

ObjectionBased: Bias

Objection: All of the following excerpts are agenda driven examples and problems. There is a mostly not so subtle and pervasive argument driven by S.E.L., environmentalism, socio-economic and other biased attitudes and reasoning unrelated to the teaching of mathematics. The student is intentionally steered to form an opinion, not to solve a problem. In addition, in most cases there is insufficient data, or the science is undocumented or not settled. The authors and/or publishers should have refrained from injecting their own personal political views. The idea is to teach math, not political science. This is my specific objection, and it is based upon all of the examples below.

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Page 32:

This hybrid hatchback averages 59 mpg in the city This large SUV averages 10 in the city. How much crude oil do you use when filling up your car? 2 full tanks 10-gal. 10-gal. 1 barrel = 42 gallons unrefined crude oil or 19 gallons of gasoline. In the United States, each state determines the tax rate on gasoline, so the State in which you buy your gas determines how much it costs to fill your tank. Your Task: Fuel Efficiency You and your classmates will analyze cars' fuel efficiency. If you were designing a car to come out in 2024, what mileage would you target?

Page 65:

b. What are some pros and cons of buying student laptops in this manner? If you could change the plan, would you? If so, how would you change it?

Page 123:

Represent and Connect The decreasing population of herons in a national park is being monitored by ecologists and is modeled by the equation $p = -0.4t + 128t + 1,200$, where t is the number of months

since the ecologists started observing the herons. a. If this model is accurate, when will the population reach its maximum? b. What is the maximum population? Round to the nearest whole number. c. use the equation to determine in how many months the population of herons will disappear.

Page 218:

7. until the truck runs out of gas, the amount of gas in its fuel tank varies inversely with the number of miles traveled. Model a relationship between the amount of gas in a fuel tank of a truck and the number of miles traveled by the truck as an inverse variation. 9 gal left after 225 mi 9 gal left after 135 mi

Page 220:

part B The amount of gas in Cameron's car is 9 gal after he drives for 2 h. The amount of gas g in gallons in his tank varies inversely with the amount of time t , in hours, he spends driving. Write the equation of the inverse variation. Use the given relationship and the equation to find the number of gallons in Cameron's tank after 5 more hours of driving.

Page 225:

The cost of removing an algae bloom is modeled by the given function where $f(p)$ is the cost, in millions of dollars, of removing p percent of the algae. What percent of the algae can be removed for \$78.3 million?

Page 239:

Find a Rate EXAMPLE 5 Leah drives her car to the mechanic. Then she takes the commuter rail train back to her neighborhood. The average speed for the 10 mile trip is 15 miles per hour faster on the train. Find an expression for Leah's total travel time. If she drove 30 mph, how long did this take?

Page 240:

5. On the way to work Juan carpools with a fellow co-worker, then takes the city bus back home in the evening. The average speed of the 20 mile trip is 5 miles per hour faster in the carpool. Write an expression that represents Juan's total travel time.

Page 319:

The population of a large city was about 4.6 million in the year 2010 and grew at a rate of 1.3% for the next four years. A. What exponential models the population of the city over that 4 year period? Compute the population for the first few years to look for a pattern. B. If the population continues to grow at the same rate, what will the population be in 2040? In 2040, the population will be about 6.78 million.

Page 347:

30. Apply Math Models A scientist is conducting an experiment with a pesticide. Use a calculator to find an exponential model for the data in the table. use the model to determine how much pesticide remains after 180 days. Then transform the function so it graphs a straight line.

Page 354:

36. Analyze and Persevere The loudness of sound is measured in decibels. For a sound with intensity I (in watts per square meter), its loudness $L(I)$ (in decibels) is modeled by the function $L(I) = 10 \log I/f$, where f represents the intensity of a barely audible sound (approximately 10-12 watts per square meter). a. Find the decibel level of the sound made by the heavy traffic. b. Find the intensity of the sound that is made by music playing at 40 decibels. c. How many times as great is the intensity of the traffic than the intensity of the music?

Page 414:

Did You Know? Meteorologists use past climate data for a particular location and date as well as weather models to make weather predictions. Some regions in the U.S. are more predictable than others. The greatest temperature change in a one-day period occurred in Loma, Montana, in 1972. The temperature rose an incredible 103 degrees, from 754 to 49 F, in 24 hours. Weather events can surprise experts, and can vary greatly even within a few miles. Climate is the long-term average of weather conditions. So the difference between weather and climate is a measure of time. Your Task: Simulate Weather Conditions You and your classmates will research climate data for a specific location for one month. You'll use probability to simulate a plausible set of weather conditions each day of February, including temperature and precipitation, and whether the precipitation will be rain or snow.

Objection #3

Textbook: Big Ideas Learning, LLC: Florida's B.E.S.T. Standards for Math Geometry with CalcChat & Calc
PageNumber: 7, 59, 62, 63, 79, 115 and 507

ObjectionBased: Bias

Objection: All of the following excerpts are agenda driven examples and problems. There is a mostly not so subtle and pervasive argument driven by S.E.L., environmentalism, socio-economic and other biased attitudes and reasoning unrelated to the teaching of mathematics. The student is intentionally steered to form an opinion, not to solve a problem. In addition, in most cases there is insufficient data, or the science is undocumented or not settled. The authors and/or publishers should have refrained from injecting their own personal political views. The idea is to teach math, not political science. This is my specific objection, and it is based upon all of the examples below.

When reviewing each of the page excerpts below, it is important to see the illustrations accompanying them. I scanned them, but it is not possible to include them here, so you will need the text to accompany.

Page 7:

EXAMPLE 5 Modeling Real Life

The diagram shows a model of a molecule of sulfur hexafluoride, the most potent greenhouse gas in the world. Name two different planes that contain line r .

Electric utilities use sulfur hexafluoride as an insulator. Leaks in electrical equipment contribute to the release of sulfur hexafluoride into the atmosphere.

Page 59:

Causes of human-tiger conflict include the following:

- **HABITAT AVAILABILITY** Deforestation, habitat degradation, and increasing human populations force tigers and humans into closer proximity.
- **SOCIOECONOMIC FACTORS** Attitudes, perceptions, beliefs, education, and economic situations affect views on how to interact with tigers.
- **WILD PREY AVAILABILITY** Prey species are diminished by overexploitation and competition with livestock. A low density of wild prey increases the chance of human-tiger conflict.
- **IMPROPER LIVESTOCK MANAGEMENT** Herding practices and locations of grazing pastures can leave livestock susceptible to attacks.
- **HUMAN BEHAVIOR** Baiting or hunting tigers, and sleeping in exposed locations increase the risk of an attack. The wild tiger population has decreased about 96% since 19m.

WILDLIFE RESERVATION You propose a new wildlife reservation in an attempt to limit human-tiger conflict. Use points and line segments to sketch the outline of your reservation in a coordinate plane. Name each point and line segment in your sketch. A local government requires several details before considering your proposal. Provide the following information:

- the length of each side of the reservation
- the area of the reservation
- the measures of the angles formed by the sides of the reservation
- the coordinates of at least three gates, located at midpoints of the sides of the reservation

Page 62:

- What causes rising sea levels?
- Explain some of the effects of rising sea levels on coastal communities.

STEM

Greenhouse gases are major contributors to climate change. In the Performance Task, you will see how greenhouse gases warm the planet. Then you will research some of the effects of climate change and write conditional statements based on your research.

Page 63:

Premise: If a vehicle uses a gasoline-powered engine, then it produces carbon dioxide.

Premise: Your school bus uses a gasoline-powered engine.

Conclusion: Therefore, your school bus produces carbon dioxide.

If the ice caps melt, then sea levels will rise.

If sea levels rise, then coasts will flood.

Therefore, if the ice caps melt, coasts will flood.

Page 79:

HOW DO YOU SEE IT?

The graph shows the total mass loss of the Greenland ice sheet since 2007. Write a conjecture using the graph.

Page 115:

CLIMATE CHANGE CONDITIONALS

Greenhouse gases are a major contributor to climate change. Use the Internet or other resources to research the effects of climate change.

? Write three conditional statements based on your research.

? Write the converse, inverse, and contra positive of each statement. Then explain whether each statement is true or false.

? Find a conjecture about climate change, and a counterexample that shows that the conjecture is false.

Page 507:

As Arctic permafrost thaws, large quantities of harmful carbon dioxide and methane gases are released into the atmosphere. Some scientists believe that cloning woolly mammoths could help keep the permafrost frozen. However, because there are no living mammoth cells to clone, scientists instead aim to engineer elephants with mammoth-like characteristics that can thrive in cold environments. Create an informational display about woolly mammoths that includes the following information: ? typical shoulder heights and weights of woolly mammoths ? the shoulder height of the particular mammoth on display ? habitat and diet ? reasons that the Arctic permafrost is thawing ? how engineering mammoths could help keep the permafrost frozen