

## Pennsylvania State Common Core Standards: (English Language Arts)

### 1.2 Reading Informational Text

Students read, understand, and respond to informational text-with an emphasis on comprehension, vocabulary acquisition, and making connections among ideas and between texts with focus on textual evidence.
CC.1.2.7.A

Determine two or more central ideas in a text and analyze their development over the course of the text; provide an objective summary of the text.
CC.1.2.7.B

Cite several pieces of textual evidence to support analysis of what the text says explicitly, as well as inferences, conclusions, and/or generalizations drawn from the text.
CC.1.2.7.F

Determine the meaning of words and phrases as they are used in grade-level reading and content, including interpretation of figurative, connotative, and technical meanings.
CC.1.2.7.J

Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.
CC.1.2.7.K

Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade-level reading and content, choosing flexibly from a range of strategies and tools.
CC.1.2.7.L

Read and comprehend literary nonfiction and informational text on grade level, reading independently and proficiently.

### 1.3 Reading Literature

Students read and respond to works of literature-with an emphasis on comprehension, vocabulary acquisition, and making connections among ideas and between texts with a focus on textual evidence.
CC.1.3.7.B

Cite several pieces of textual evidence to support analysis of what the text says explicitly, as well as inferences, conclusions, and/or generalizations drawn from the text.
CC.1.3.7.F

Determine the meaning of words and phrases as they are used in grade-level reading and content, including interpretation of figurative, connotative meanings.
CC.1.3.7.I

Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade-level reading and content, choosing flexibly from a range of strategies and tools.

### 1.4 Writing

Students write for different purposes and audiences. Students write clear and focused text to convey a well-defined perspective and appropriate content.
CC.1.4.7.A

Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information clearly.
CC.1.4.7.C

Develop and analyze the topic with relevant facts, definitions, concrete details, quotations, or other information and examples; include graphics and multimedia when useful to aiding comprehension.
CC.1.4.7.D

Organize ideas, concepts, and information using strategies such as definition, classification, comparison/contrast, and cause/effect; use appropriate transitions to create cohesion and clarify the relationships among ideas and concepts; provide a concluding statement or section; include formatting when useful to aiding comprehension.
CC.1.4.7.F

Demonstrate a grade appropriate command of the conventions of Standard English grammar, usage, capitalization, punctuation, and spelling.

## CC.1.4.7G

Write arguments to support claims.
CC.1.4.7.I

Acknowledge alternate or opposing claims and support claim with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic.
CC.1.4.7.J

Organize the claim(s) with clear reasons and evidence clearly; clarify relationships among claim(s) and reasons by using words, phrases, and clauses to create cohesion; provide a concluding statement or section that follows from and supports the argument presented.
CC.1.4.7.L

Demonstrate a grade appropriate command of the conventions of Standard English grammar, usage, capitalization, punctuation, and spelling.

### 1.5 Speaking and Listening

Students present appropriately in formal speaking situations, listen critically, and respond intelligently as individuals or in group discussions.
CC.1.5.7.A

Engage effectively in a range of collaborative discussions, on grade-level topics, texts, and issues, building on others' ideas and expressing their own clearly.
CC.1.5.7.D

Present claims and findings, emphasizing salient points in a focused, coherent manner with pertinent descriptions, facts, details, and examples; use appropriate eye contact, adequate volume, and clear pronunciation.
CC.1.5.7.G

Demonstrate command of the conventions of Standard English when speaking based on Grade 7 level and content.

## Skills:

- Use Informal Measures of Probability
- Use the FCP (Fundamental Counting Principle) to Determine the Possible Outcomes
- Find Experimental Probability
- Find the Theoretical Probability of an Event
- Interpret, Analyze, \& Calculate the Probability in Various Types of Probability Exercises
- Find the Probability of Independent \& Dependent Events


## Assessments

| $\boxtimes$ Tests | $\square$ Peer Evaluation |
| :--- | :--- |
| $\boxtimes$ Quizzes | $\square$ Rubric Scoring |
| $\boxtimes$ Worksheets | $\boxtimes$ Group Grade |
| $\boxtimes$ Homework | $\square$ Other |
| $\boxtimes$ Teacher Observation |  |
| $\boxtimes$ Student Writing |  |
| $\boxtimes$ Student Presentations |  |
| $\square$ Student Projects |  |
| $\boxtimes$ Student Written |  |
|  | Response (reflection) |

## Resources

Textbook
Go Math Accelerated Grade 7 Workbook
Scholastic Math Magazine
Supplementary Materials
Materials listed on Unit Lesson Plans
® Workbook/Worksheets
$\boxtimes$ Teacher-prepared materials

【 Individual Title

Technology
Go Math Online Textbook
Chromebooks
Google Classroom
Khan Academy
$\boxtimes$ Other
Modified homework and assessments
Intervention and Enrichment worksheets to help reinforce difficult concepts presented or to engage in higher-level applications of concepts.

## Special Education Adaptations/Modifications:

- Adapted/modified assignments and/or assessments for gifted / enriched students
- Follow IEP / 504 / GIEP / SDI accommodations as documented


## Differentiated Instruction / SGI Activities:

- Critical Thinking - Open-ended class discussion
- Cooperative learning
- Peer lead grouping
- Problem-solving activities


## Reading \& Writing:

- Non-fiction reading excerpts that include writing prompts and multiple choice questions - monthly Scholastic Math Magazines and unit related articles


# Math 7 <br> Mrs. Radomski <br> Unit 5 Part 2-Statistics and Probability (11 days) 

| Unit Order Date | Lessons and Objectives Bell Ringer | Activities / Materials / <br> Assessments / Homework |
| :---: | :---: | :---: |
| 1 of 11 <br> 3/6/19 | Probability <br> Students will be able to find the probability of an event. <br> Warm-up Question: How many cards are there in a full deck (not including jokers)? \{52 cards\} | - Pass back and go over the Unit 5 Project <br> - Read out loud the What is Probability? How Does It Shape Our Lives? Article <br> - Go over the What is Probability? Notes <br> - Have the students work on the Probability Word Problems Packet with their group and go over the answers when they finish. <br> HW: Complete the What is Probability? WS |
| 2 of 11 <br> 3/7/19 | Theoretical \& Experimental Probability <br> Students will be able to calculate probability using theoretical and experimental methods. <br> Warm-up Question: What is the difference between an experiment, a trial, and an outcome? \{experiment (before), trial (during), outcome (after) \} | - Check and go over the homework (What is Probability? WS) <br> - Go over the first part of the What Are Experimental \& Theoretical Probability? Notes <br> - Have the students work on the MasterMath WS and go over the answers when they finish Go over the second half of the What Are Experimental \& Theoretical Probability? Notes <br> - Have the students work on the Experimental Probability WS with their group Go over the WS when they finish <br> HW: None |
| 3 of 11 <br> 3/8/19 | Sample Space and The Fundamental Counting Principle Students will be able to find the number of possible outcomes in an experiment. <br> Warm-up Question: What does a tree diagram show? \{all the possible combinations of an event $\}$ | - Go over the What is Sample Space? Notes <br> - Have the students complete the What is Sample Space? WS and go over the answers when they finish <br> - Go over the Fundamental Counting Principle Practice A and B WS together <br> - Have the students work on the Probability: Counting Principle WS <br> - Go over the answers when the students finish <br> HW: Complete the Fundamental Counting Principle Problem Solving WS |


| $\begin{aligned} & \hline \mathbf{4} \text { of } 11 \\ & 3 / 11 / 19 \end{aligned}$ | Review of Probability Students will be able to review the concepts taught in previous lessons on probability. <br> Warm-up Question: What is the difference between experimental and theoretical probability? \{exp. is based on exp. results and theoretical is based on making certain assumptions about an experiment $\}$ | - Have the students work on the SGI activities <br> - SGI Group 1: Simple Probability Maze Activity (Student Led) <br> - SGI Group 2: Experimental and Theoretical Probability Stations Activity (Teacher will work with these groups) <br> - SGI Group 3: Making Predictions Dominos Activity (Student Led) <br> HW: Study for the quiz tomorrow |
| :---: | :---: | :---: |
| $\begin{aligned} & 5 \text { of } \mathbf{1 1} \\ & 3 / 12 / 19 \end{aligned}$ | Probability Quiz <br> Students will be able to discuss and demonstrate an understanding of previous lessons by working on a graded assessment. <br> Warm-up Question: Are there any questions before the quiz? \{Answers will vary\} | - Have the students finish the SGI activities that they started yesterday <br> - SGI Group 1: Simple Probability Maze Activity (Student Led) <br> - SGI Group 2: Experimental and Theoretical Probability Stations Activity (Teacher will work with these groups) <br> - SGI Group 3: Making Predictions Dominos Activity (Student Led) <br> - Have the students take the Probability Quiz <br> - When they are finished, the students will complete their monthly Reading/Writing Assignment using the Scholastic Math Magazine <br> - When the students finish the assignment, they should work on Khan Academy on their Chrome Books <br> HW: None |
| $\begin{aligned} & \hline \mathbf{6} \text { of } 11 \\ & 3 / 13 / 19 \end{aligned}$ | Independent Events Students will be able to find the probabilities of independent events. <br> Warm-up Question: What does the word "independent" mean? \{not depending on something else $\}$ | - Pass back and go over the Probability Quiz <br> - Go over the What Is An Independent Event? Notes <br> - Go over the Independent Event WS together <br> - SGI: Have the students work with their partners on the Independent Probability He Said, She Said Activity. <br> - When they are finished, they should work on the What Is An Independent Event? WS <br> HW: Complete the What Is An Independent Event? WS |
| EXTRA $3 / 14 / 19$ | Pi Day Activities <br> Warm-up Question: What is the numerical value of $\pi$ ? $\{3.14\}$ | - We will break the class into teams. They will compete in the following activities. The winning team will receive a pie treat. <br> - Activity 1: Pi Day Jeopardy <br> (Webquest) <br> - Activity 2: Trashketball (Solving <br> Area and Circumference of a Circle Questions) <br> If more time is needed, the students will create Pi Day Skylines and Word Scramble. <br> HW: None |


| $\begin{aligned} & 7 \text { of } 11 \\ & 3 / 15 / 19 \end{aligned}$ | Dependent Events <br> Students will be able to find the probabilities of dependent events. <br> Warm-up Question: What does the word "dependent" mean? \{relying on something else $\}$ | - Check and go over the homework (What Is An Independent Event? WS) <br> Go over the What Is A Dependent Event? Notes Go over the Dependent Event WS together SGI: Have the students work with their partners on the Dependent Probability Cut and Paste Activity. <br> - When they are finished, they should work on the What Is A Dependent Event? WS <br> HW: Complete the What Is A Dependent Event? WS |
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| EXTRA $3 / 18 / 19$ | March Madness Project Preparation Students will be able to prepare their brackets to be used for a later activity. <br> Warm-up Question: What is March Madness? \{NCCA Basketball Tournament\} | - Introduce the March Madness Activity that the students will complete in April after the tournament concludes. <br> - Have the students watch segments of the March Madness Selection Sunday Show and NCCA Bracket Numbers to Know on ESPN and have them use their knowledge of statistics to fill out a March Madness Bracket. They are able to use the men's or women's brackets for this activity, but the women's bracket will not be out until tonight. <br> - They should fill out their brackets, pick one player to collect stats on, and write a paragraph on the back of the bracket explaining why they chose their Final Four and Champion. <br> - Collect their brackets and save them for a later date. <br> HW: None |
| 8 of 11 $3 / 19 / 19$ | Cumulative review of Unit 5 Part 2 Objectives. <br> Students will be able to review the material covered in Unit 5 Part 2. <br> Warm-up Question: What is the probability of randomly selecting a queen and then a king from a standard deck of cards? $\{4 / 663\}$ | - Check and go over the homework (What Is An Dependent Event? WS) <br> - Have the students work on the SGI activities <br> - SGI Group 1: Probability Task Card Activity (Student Led) <br> - SGI Group 2: Probability Review Packet (Teacher will work with these groups) <br> - SGI Group 3: Number Cube Probability Activity (Student Led) <br> HW: None |
| $\begin{aligned} & 9 \text { of } 11 \\ & 3 / 20 / 19 \end{aligned}$ | Unit 5 Part 2 Test Students will be individually evaluated on their understanding of the objectives in Unit 5 Part 2. <br> Warm-up Question: Are there any questions before the test? \{Answers will vary $\}$ | - The students should work on the Probability Study Guide <br> - When the students finish, we will go over it. <br> - Give the students a final chance to ask any questions they have about the material that will be covered on the test <br> - Have the students complete the Unit 5 Part 2 Test <br> - When the students finish the assignment, they should work on Khan Academy on their Chromebooks <br> HW: None |


| 10 of 11 <br> 3/21/19 | The Game of Life Project; Cumulative review of rational numbers, percents, statistics, and probability objectives. <br> Students present study guide solutions and engage in discussion of assessment content. <br> Warm-up Question: How does probability play a role in the board game 'Life'? \{Answers will vary\} | - Introduce The Game of Life Math Money Project <br> - Have the students work on the project until the end of class <br> HW: None |
| :---: | :---: | :---: |
| 11 of 11 <br> 3/22/19 | The Game of Life Project; Cumulative review of rational numbers, percents, statistics, and probability objectives. <br> Students present study guide solutions and engage in discussion of assessment content. <br> Warm-up Question: No Question Today | - Have the students work on The Game of Life Math Money Project <br> HW: None |

