

RUMPELSTILTZKIN

realigned to Next Generation Standards
Math and English Language Arts
adopted by the WVDE 8/15/2011



Music and Math Lesson Plan

West Virginia Symphony Orchestra Young People's Concert Series

Grade Level(s): Third, Fourth, and Fifth

Lesson Title: Patterns in Music



Focus: (Concept or skills to be emphasized)

Rhythm, melody, theory, form, listening, repeating patterns

Third-Grade

- M.3.OA.9 identify arithmetic patterns and explain them using properties of operations
- M.3.G.2 partition shapes into parts with equal areas and express the area of each part as a unit fraction of the whole
- M.3.MD.3 draw a scaled picture graph and a scaled bar graph to represent a data set with several categories and solve one- and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs
- M.3.G.2 partition shapes into parts with equal areas and express the area of each part as a unit fraction of the whole

Fourth-Grade

- M.4.OA.5 generate a number or shape pattern that follows a given rule and identify apparent features of the pattern that were not explicit in the rule itself
- M.4.NF.2 compare two fractions with different numerators and different denominators...
- M.4.MD.1 know relative sizes of measurement units within one system of units; within a single system of measurement, express measurements in a larger unit in terms of a smaller unit



Grade Level(s): Third, Fourth, and Fifth
Lesson Title: Singing Character Themes



Focus: (Concepts or skills to be emphasized)
Rhythm, melody, expressive qualities, singing, listening

Third Grade

- ELA.3.R.C1.1 recount stories, including fables, folktales and myths from diverse cultures; determine the central message, lesson or moral and explain how it is conveyed through key details in the literary text
- ELA.3.R.C1.3 describe characters in a literary story and explain how their actions contribute to the sequence of events
- ELA.3.R.C3.1 explain how specific aspects of a literary text's illustrations contribute to what is conveyed by the words in a story (e.g., create mood, emphasize aspects of a character or setting)

Fourth Grade

- ELA.4.R.C1.3 describe in depth a character, setting or event in a story or drama, drawing on specific details in the literary text (e.g., a character's thoughts, words or actions)
- ELA.4.R.C1.2 determine a theme of a story, drama or poem from details in the literary text; summarize the text

Fifth Grade

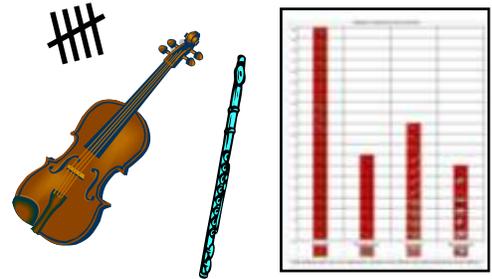
- ELA.5.R.C1.2 determine a theme of a story, drama or poem from details in a literary text, including how characters in a story or drama respond to challenges or how the speaker in a poem reflects upon a topic; summarize the text
- ELA.5.R.C1.3 compare and contrast two or more characters, settings or events in a story or drama, drawing on specific details in the literary text (e.g., how characters interact).
- ELA.5.R.C3.1 analyze how visual and multimedia elements contribute to the meaning, tone or beauty of a literary text
- ELA.5.R.C#.3 draw on information from multiple print or digital information sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently



Music and Math Lesson Plan
West Virginia Symphony Orchestra Young People's Concert Series

Grade Level(s): Third, Fourth, and Fifth
Lesson Title: Every Instrument Has a Place

Focus: (Concept or skills to be emphasized)
 Graphing, pictographs, tally marks, classifying objects, data analysis



Third Grade

M.3.MD.3 draw a scaled picture graph and a scaled bar graph to represent a data set with several categories and solve one- and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs

Fourth Grade

M.4.MD.3 make a line plot to display a data set of measurements in fractions of a unit and solve problems involving addition and subtraction of fractions by using information presented in line plots



Music, Language Arts, Visual Arts, and Science Lesson Plan
West Virginia Symphony Orchestra Young People's Concert Series

Grade Level(s): Third, Fourth, and Fifth
Lesson Title: Disorder into Order

Focus: (Concept or skills to be emphasized)
 Reading comprehension, sequencing, creative visual arts, tolerance, listening



Third-Grade

- ELA.3.R.C1.2** recount stories, including fables, folktales and myths from diverse cultures; determine the central; determine the central message, lesson or moral and explain how it is conveyed through key details in the literary text.
- ELA.3.R.C1.3** describe characters in a literary story (e.g., their traits, motivations or feelings) and explain how their actions contribute to the sequence of events.
- ELA.3.R.C3.3** use information gained from illustration (e.g., maps, photographs) and the words in an informational text to demonstrate understanding of the text (e.g., where, when, why and how key events occur)
- ELA.3.R.C8.1** read with sufficient accuracy and fluency to support comprehension.
- ELA.3.R.C7.1** know and apply grade-level phonics and word analysis skills in decoding words.
- ELA.3.L.C17.3** acquire and use accurately grade-appropriate conversational, general academic and domain-specific words and phrases, including those that signal spatial and transitional relationships.

Fourth-Grade

- ELA.4.R.C8.1 read with sufficient accuracy and fluency to support comprehension
- ELA.4.R.C2.1 determine the meaning of words and phrases as they are used in a literary text, including those that allude to significant characters found in mythology
- ELA.4.R.C2.2 explain major differences between poems, drama and prose and refer to the structural elements of poems and drama when writing or speaking about a literary text.
- ELA.4.W.C10.1 with guidance and support from adults, produce writing in which the development and organization are appropriate to task and purpose.
- ELA.4.W.C10.2 with guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising and editing.
- ELA.4.W.C10.3 with guidance and support from adults, use technology to produce and publish writing (using keyboard skills) as well as to interact and collaborate with other.

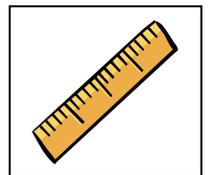
Fifth-Grade

- ELA.5.SL.C14.1 report on a topic or text or present an opinion, sequencing ideas logically and using appropriate facts and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace.
- ELA.5.R.C2.1 determine the meaning of words and phrases as they are used in a literary text, including figurative language such as metaphors and similes
- ELA.5.R.C2.5 compare and contrast the overall structure of events, ideas, concepts or information in two or more information texts



Math and Science Lesson Plan **West Virginia Symphony Orchestra Young People's Concert Series**

Grade Level(s): Third, Fourth, and Fifth
Lesson Title: Metrics and Measurement



Focus: Metric System, Comparisons, Solving Problems, Reinforcing Skills

Third Grade

- M.3.MD.4 generate measurement data by measuring lengths using rules marked with halves and fourths of an inch and show the data by making a line plot, where the horizontal scale is marked off in appropriate units—whole numbers, halves or quarters
- M.3.MD.8 solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters
- M.3.MD.7 relate area to the operations of multiplication and addition

Fourth Grade

- M.4.MD.1 select relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz; l, ml; hr, min, sec, within a single system of measurement, express measurements in a larger units

in terms of a smaller unit, record measurement equivalents in a two column table, and generate a conversion table for feet and inches listing the number pairs.

M.4.MD.3 apply the area and perimeter formulas for rectangles in real world and mathematic problems

Fifth Grade

M.5.MD.2. make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$) and use operations on fractions for this grade to solve problems involving information presented in line plots.

M.5.AD.5 relate volume to the operations of multiplication and addition and solve real-world and mathematical problems using volume

M.5.MD.1 convert among different-sized standard measurement units within a given measurement system and use these conversions in solving multi-step, real-world problems.



Math Lesson Plan

West Virginia Symphony Orchestra Young People's Concert Series

Grade Level(s): Third, Fourth, and Fifth

Lesson Title: Charts and Diagrams



Focus: Charts, Mapping, Plotting, Land Area, Solving Problems

Third Grade

M.3.MD.3 draw a scaled picture graph and a scaled bar graph to represent a data set with several categories and solve one- and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs

M.3.MD.7 relate area to the operation of multiplication and addition (a. find the area of a rectangle with whole-number side lengths by tilting it, and show that the area is the same as would be found by multiplying side lengths)

M.3.MD.8 solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters

Fourth Grade

M.4.NF.2 compare two fractions with different numerators and different denominators, and justify the conclusions, e.g., by using a visual fraction model

M.4.NF.5 express a fraction with a denominator 10 as equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100

M.4.NF.6 use decimal notation for fractions with denominators 10 or 100

M.4.G.2 classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines or the presence or absence of angles of a specified size, recognize right triangles as a category and identify right triangles

M.4.MD.4 make a line plot to display a data set of measurements in fractions of a unit and solve problems involving addition and subtraction of fractions by using information presented in plots

M.4.MD.3 apply the area and perimeter formulas for rectangles in real world and mathematic problems

Fifth Grade

- M.5.NF.1 add and subtract fractions with unlike denominators by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.
- M.5.NF.5 interpret multiplication as scaling by a. comparing the size of a product to the size of one factor on the basis of the size of the other factor, with performing the indicated multiplication.
- M.5.NF.6 solve real-world problems involving multiplication of fractions and mixed numbers
- M.5.G.4 classify two-dimensional figures in a hierarchy based on properties
- M.5.MD.2. make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$) and use operations on fractions for this grade to solve problems involving information presented in line plots.
- M.5.AD.5 relate volume to the operations of multiplication and addition and solve real-world and mathematical problems using volume
- M.5.MD.1 convert among different-sized standard measurement units within a given measurement system and use these conversions in solving multi-step, real-world problems.



Math and Music Lesson Plan
West Virginia Symphony Orchestra Young People's Concert Series

Grade Level(s): Third, Fourth, and Fifth
Lesson Title: Note Values as Math



Focus: Fractions, Music Notes, Cooperative Learning, Discussion

Third Grade

- M.3.OA.9 identify arithmetic patterns and explain them using properties of operations
- M.3.G.2 partition shapes into parts with equal areas and express the area of each part as a unit fraction of the whole
- M.3.NF.3 explain equivalence of fractions in special cases and compare fractions by reasoning about their size

Fourth Grade

- M.4.NF.2 compare two fractions with different numerators and different denominators, and justify the conclusions, e.g., by using a visual fraction model

Fifth Grade

- M.5.NF.1 add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators



Grade Level(s): Third, Fourth, and Fifth
Lesson Title: Chanting a Rhyme



Focus: Reading comprehension, developing writing, using written language to communicate

WV Content Standard Objectives:

Third Grade

- ELA.3.R.C1.2 recount stories, including fables, folktales and myths from diverse cultures; determine the central; determine the central message, lesson or moral and explain how it is conveyed through key details in the literary text.
- ELA.3.R.C1.3 describe characters in a literary story (e.g., their traits, motivations or feelings) and explain how their actions contribute to the sequence of events.
- ELA.3.R.C3.3 use information gained from illustration (e.g., maps, photographs) and the words in an informational text to demonstrate understanding of the text (e.g., where, when, why and how key events occur)
- ELA.3.R.C8.1 read with sufficient accuracy and fluency to support comprehension.
- ELA.3.R.C7.1 know and apply grade-level phonics and word analysis skills in decoding words.
- ELA.3.L.C17.3 acquire and use accurately grade-appropriate conversational, general academic and domain-specific words and phrases, including those that signal spatial and transitional relationships.
- ELA.3.R.C1.1 ask and answer questions to demonstrate understanding of a literary text, referring explicitly to the text as the basis for the answers.
- ELA.3.W.C10.1 with guidance and support from adults, produce writing in which the development and organization are appropriate to task and purpose.
- ELA.3.W.C10.2 with guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising and editing.
- ELA.3.W.C10.3 with guidance and support from adults, use technology to produce and publish writing (using keyboard skills) as well as to interact and collaborate with other.
- ELA.3.SL.C14.2 create engaging audio recordings of stories or poems that demonstrate fluid reading at an understandable pace, add visual displays when appropriate to emphasize or enhance certain facts or details.
- ELA.3.L.C15.1 demonstrate command of the conventions of standard English grammar and usage when writing or speaking
- ELA.3.R.C2.1 determine the meaning of words and phrases as they are used in a literary text, distinguishing literal from non-literal language.
- ELA.3.L.C16.1 use knowledge of language and its conventions when writing, speaking, reading or listening.

Fourth Grade

- ELA.4.R.C8.1 read with sufficient accuracy and fluency to support comprehension
- EAL.4.R.C2.1 determine the meaning of words and phrases as they are used in a literary text, including those that allude to significant characters found in mythology
- ELA.4.R.C2.2 explain major differences between poems, drama and prose and refer to the structural elements of poems and drama when writing or speaking about a literary text.

- ELA.4.W.C10.1 with guidance and support from adults, produce writing in which the development and organization are appropriate to task and purpose.
- ELA.4.W.C10.2 with guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising and editing.
- ELA.4.W.C10.3 with guidance and support from adults, use technology to produce and publish writing (using keyboard skills) as well as to interact and collaborate with other.
- ELA.4.SL.C13.1 engage effectively in a range of collaborative discussions with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly
- ELA.4.SL.C14.1 report on a topic or text, tell a story or recount an experience in an organized manner, using appropriate facts and relevant, descriptive details to support main ideas or themes, speak clearly at an understandable pace.

Fifth Grade

- ELA.5.R.C2.2 explain how a series of chapters, scenes or stanzas fits together in a literary text to provide the overall structure of a particular story, drama or poem.
- ELA.5.R.C3.1 analyze how visual and multimedia elements contribute to the meaning, tone or beauty of a literary text
- EAL.5.W.C10.1 produce clear and coherent writing in which the development and organization are appropriate to task, purpose and audience
- ELA.5.W.C10.2 with guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising, editing, rewriting or trying a new approach
- ELA.5.W.C10.3 with some guidance and support from adults, use technology, including the internet, to produce and publish writing as well as to interact and collaborate with others; demonstrate sufficient command of keyboarding skills to type a minimum of two pages in a single sitting.
- ELA.5.SL.C13.1 engage effectively in a range of collaborative discussions with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.