

ARTS IMPACT LESSON PLAN

Visual Arts and Math Infused Lesson

Lesson Three: *Polygons in Architectural Design*

Author: Meredith Essex

Grade Level: Fifth



Enduring Understanding

Polygons are classified according to properties and can be combined in architectural designs.

Lesson Description (Use for family communication and displaying student art)

Students practice drawing a variety of geometric figures using math/architectural drawing tools. Students then observe, name, and classify polygons seen in urban photos and architectural plans. Students design a bridge, tower, or building combining three different kinds of triangles and three different kinds of quadrilaterals. Pencil drawings are traced in pen, and architectural details/patterns are added. Last, students reflect on and classify 2-dimensional figures seen in their architectural designs.

Learning Targets and Assessment Criteria

Target: Classifies 2-dimensional figures.

Criteria: Identifies and describes polygon figures, and properties of their sides, and angles seen in art.

Target: Combines polygons in an architectural design.

Criteria: Designs a structure made of straight sided shapes that include three kinds of triangles and three kinds of quadrilaterals.

Target: Refines design.

Criteria: Traces over drawing in pen, adds architectural details and patterns.

Target: Uses craftsmanship.

Criteria: Uses grid, rulers, and templates in drawing design.

Vocabulary	Materials	Learning Standards
Arts Infused: Geometric shape Parallel Pattern Perpendicular Rectangle Square Symmetry Math: Congruent Equilateral Isosceles Parallelogram Polygon Quadrilateral Rhombus Scalene Trapezoid Arts: Architecture Detail Refine Template	Museum Artworks or Performance: Seattle, WA Seattle Art Museum Tacoma, WA Tacoma Art Museum Materials 1/2" graph paper: 8.5x11", 2 per student; Tracing paper/vellum: 8.5x11"; Drawing pencils: 2H; Vinyl erasers; Blue painter's tape; Protractors; Rulers; Geometry/ architectural shape templates; Recycled jar lids or caps: optional; Black markers: fine, extra fine, and ultra fine tips; Arts Impact Sketchbooks ; Class Assessment Checklist; Photos of Structures ; photos or diagrams of bridges from end of lesson Connections Everyday Mathematics 3.6, 3.7, 3.9 <i>continued</i>	WA Arts State Grade Level Expectations <i>For the full description of each WA State Arts Grade Level Expectation, see: http://www.k12.wa.us/Arts/Standards/</i> 1.1.2 Elements: Geometric Shape 1.1.7 Principles of Design: Symmetry, balance, repetition 1.2.1 Skills and Techniques: Architectural Drawing 2.1.1 Creative Process 2.3.1 Responding Process 4.2.1 Connection between Visual Arts and Math Early Learning Guidelines (Pre-K – Grade 3) <i>For a full description of Washington State Early Learning and Child Development Guidelines see: http://www.dcf.wa.gov/development/guidelines/ (Age 4-5) 6. Learning about my world: Math: Match and sort simple shapes; follow simple directions for position. Arts: Use a variety of materials to create representations of people and things.</i> <i>continued</i>

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Kaufmann, Karen, Dehline, Jordan



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Teaching Creatively and Teaching Creativity Mary Banks Gregerson, Heather T. Snyder, James C. Kaufman, 2012-11-13 Creative teaching as well as teaching creativity are cutting edge issues in psychology today as recent academic and popular media coverage has shown This volume expands on that interest with chapter authors drawn from interdisciplinary areas It includes examples of creatively teaching across the education system including preschool K 12 undergraduate and graduate level education The variety of subjects covered by the chapters include psychology math science and reading In addition to creative teaching which may lead to enhanced learning and achievement in students as well enhanced creativity another focus is teaching with the objective to enhance creativity

STEM-Infusing the Elementary Classroom Miranda Talley Reagan, 2016-02-19 Make learning relevant with STEM essential questions This engaging teacher friendly guide helps teachers quickly and confidently infuse STEM concepts into all content areas Real world vignettes sample lesson templates discussion questions and immediately applicable action steps help you seamlessly promote college and career ready skills Use this inspiring guide to Deepen all content areas including English Language Arts Promote the 4Cs communication collaboration critical thinking and creativity Require students to take risks to solve problems Differentiate instruction and scaffold support Expand students specific measurable capabilities Incorporate design skills into the curricula Save valuable time and confidently develop standards aligned STEM projects in all content areas

Dance Integration Karen A. Kaufmann, Jordan Dehline, 2014-06-23 Do you want to create a rich and vibrant classroom environment stimulate your students minds in multiple ways transform your teaching through incorporating the arts in your mathematics and science curriculums Then Dance Integration 36 Dance Lesson Plans for Science and Mathematics is just the book for you The dance lesson plans in this groundbreaking book infuse creativity in mathematics and science content Students will gain a wealth of critical knowledge deepen their critical thinking skills and learn to collaborate and communicate effectively Written for K 5 teachers who are looking for creative ways to teach the standards Dance Integration will help you bring your mathematics and science content to life as you guide your students to create original choreography in mathematics and science and perform it for one another In doing so you will help spark new ideas for your students out of those two curriculums no more same old same old And in the freshness of these new ideas students will increase comfort in performing in front of one another and discussing performances while deepening their understanding of the core content through their kinesthetic experiences The creative thinking skills that you will teach through these lesson plans and the innovative learning that dance provides are what set this book apart from all others in the field Dance Integration was extensively field tested by authors Karen Kaufmann and Jordan Dehline The book contains these features Instructions on developing modules integrating mathematics and science Ready to use lesson plans that classroom teachers physical education teachers dance educators and dance specialists can use in teaching integrated content in mathematics and science Tried and true methods for connecting

to 21st century learning standards and integrating dance into K 5 curriculums This book which will help you assess learning equally in dance science and mathematics is organized in three parts Part I introduces the role of dance in education defines dance integration and describes the uses benefits and effects of dance when used in tandem with another content area Part II offers dance and mathematics lessons that parallel the common core standards for mathematics Part III presents dance and science learning activities in physical science life science earth and space sciences investigation experimentation and technology Each lesson plan includes a warm up a developmental progression of activities and formative and summative assessments and reflections The progressions help students explore experiment create and perform their understanding of the content The plans are written in a conversational narrative and include additional notes for teachers Each lesson explores an essential question relevant to the discipline and may be taught in sequence or as a stand alone lesson Yes Dance Integration will help you meet important standards Common Core State Standards for Mathematics Next Generation Science Standards Standards for Learning and Teaching Dance in the Arts More important this book provides you with a personal aesthetic realm in your classroom that is not part of any other school experience It will help you bring joy and excitement into your classroom And it will help you awaken a community of active and eager learners Isn't that what education is all about

Handbook for Counselors Serving Students With Gifts and Talents Tracy L. Cross, Jennifer Riedl
Cross, 2021-09-30 The second edition of Handbook for Counselors Serving Students With Gifts and Talents provides the definitive overview of research on the general knowledge that has been amassed regarding the psychology of gifted students This book Introduces the reader to the varied conceptions of giftedness Covers issues specific to gifted children and various intervention methods Describes programs designed to fulfill the need these children have for challenge Is updated and expanded addressing contemporary issues Reflects the latest research on giftedness With chapters authored by leading experts in the field Handbook for Counselors Serving Students With Gifts and Talents is a resource professionals can turn to for answers to a wide variety of questions about gifted children

Resources in Education, 1999 *The Art of Teaching Science* Jack Hassard, 2005 This is a core teaching textbook designed for the professional development of middle and high school science teachers Differing from other texts in its constructivist approach to learning and teaching it provides meaningful learning experiences and connections with the most recent research and understanding of science teaching Each chapter is organized into two sections the first focuses on the content of the major theme of the chapter while the second consists of a newspaper like feature called The Science Teaching Gazette containing a variety of strategies for extending the learning process Packed with learning tools hands on inquiry activities case studies think pieces and interviews with teachers around the world this is a remarkably comprehensive textbook designed to prepare a new cadre of science teachers Midwest

Prevention Pipeline, 1991 An alcohol and drug awareness service *Integrating Technology into the Curriculum 2nd Edition* Kopp, Kathleen N., 2017-03-01 With digital components becoming the commonplace in the education world educators

must learn how to integrate technology into the classroom and step into the digital age of teaching This updated second edition resource provides teachers with classroom tested ideas and resources to enhance instruction and help make the integration of technology a seamless process Featuring standards based lessons and topics such as distance learning and virtual school webquests blogs and social networking interactive games activities and simulations this resource will help you have a technologically advanced classroom in no time *Striving for Excellence* ,1994 *Comprehensive School Health Education Programs* ,1993

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