

Student Progress Through Arts Resources and Knowledge (SPARK)

Curriculum Map Template

GRADE 5

Topic : Numbers & Operations-Fractions	Number of Instructional Minutes/Hours/Days: 5 Days			
Topic Description: Unit will explore dividing and interpreting whole numbers by a unit fraction. Students will use visual fraction models to show quotients and create drawings to solve fraction problems. At the end of this unit, students will demonstrate their understanding of key concepts such as: <i>unit fraction, dividend, divisor, quotient,</i> and <i>whole number</i> by designing a game and entertainment center for their community. Students will be expected to: research game and entertainment centers in Chicago/Illinois, determine the types of games and other interactive activities to be included in the space that may best interest the members of their community, divide a designated amount of space into smaller units by a unit fraction, use visual fraction models to create a floor plan that maps out the various sections for the designed game and entertainment center, write a pitch statement for the floor plan designed, and present their pitch of the floor plan design to community members.				
Learner Standards				

(1)

What are the standards? For subject area? For the art discipline to be explored?

COMMON CORE STATE STANDARDS MATHEMATICS

• CCSS.MATH.CONTENT.5.NF.B.7: Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions.¹

- CCSS.MATH.CONTENT.5.NF.B.7.B: Interpret division of a whole number by a unit fraction, and compute such quotients. For example, create a story context for 4 ÷ (1/5), and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that 4 ÷ (1/5) = 20 because 20 × (1/5) = 4.
- <u>CCSS.MATH.PRACTICE.MP1</u> Make sense of problems and persevere in solving them.
- <u>CCSS.MATH.PRACTICE.MP2</u>: Reason abstractly and quantitatively.

COMMON CORE STATE STANDARDS LITERACY

- CCSS.ELA-LITERACY.RI.5.7: Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently.
- CCSS.ELA-LITERACY.RI.5.9: Integrate information from several texts on the same topic in order to write or speak about the subject knowledgeably.
- CCSS.ELA-LITERACY.W.5.2: Write informative/explanatory texts to examine a topic and convey ideas and information clearly.
- CCSS.ELA-LITERACY.W.5.7: Conduct short research projects that use several sources to build knowledge through investigation of different aspects of a topic.
- CCSS.ELA-LITERACY.SL.5.4

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.

ILLINOIS ARTS LEARNING STANDARDS FOR VISUAL ARTS

• 5th VA:Cr1.1.5: a. Combine ideas to generate an innovative idea for art making.

Learner Outcome(s)	Conceptual	Guiding Question(s)	Content Focus	Skill(s)	Assessment
(2) Knowledge, skills, and abilities that a student has attained at the end of engaging in this session.	Understanding(s) Idea(s) that are at the core of the subject and may require inquiry.	What questions will help students to get to the core of the subject?	List of key concepts that learners will understand by the end of this lesson.	(4) Set of knowledge, skills, habits of mind, or character traits that need to be introduced, taught, practiced, and reinforced to maximize learning success.	Product(s) (3) What will the students have to know and do to demonstrate mastery of learning objectives/standards?
end of this session learners will be able to:	Learners will understand:	1. What are whole numbers?	Key Vocabulary: • Unit fraction, • Dividend	Learners will be able to:	At the end of this unit learners will:

1. Divide a whole number	Whole numbers	2. What are fractions?	Divisor	1.	Solve problems	an interactive family
by a unit fraction.	can be divided by	3 What is a unit fraction?	Quotient		using pictures.	game and
	unit fractions.	S. What is a unit fraction.	Whole number	2.	Split a unit whole	entertainment center
2. Interpret division of a	How many groups of a given fractional	3. How can a whole			into smaller	Research game
whole number by a unit	size will fit into the	number be divided by a		2	Create nictures to	and entertainment
fraction	number of wholes	unit fraction?		J.	solve problems	centers in
3 Lise a visual fraction	given.	4. How can visual fraction			dealing with	Chicago/Illinois.
model to show the	 Pictures can be 	models be used to			fractions.	Determine the
quotient.	used develop a	represent math		4.	Write correct	types of games
	concrete and	problems?			equations.	interactive
4. Solve real world	conceptual			5.	Solve equations.	activities to be
fraction models and	understanding of			6.	Draw pictures to	included in the
equations to represent the	numbers by unit				their answer	space that may
problem.	fractions.			7.	Write story	best interests the
					problems to go	community.
e a pitch statement for the					with student	• Divide a
floor plan designed.					created pictures.	designated
community selection				8.	Conduct research	amount of space
committee.					on features of	hy a unit fraction
					game and	 Use visual fraction
ent a pitch statement for the					centers in	models to create a
floor plan designed to a					Chicago/Illinois.	floor plan that
committee.				9.	Write to convey	maps out the
					ideas about the	for the designed
					features of the	game and
					game and	entertainment
					center designed	center.
				10.	Present a pitch for	Write a pitch
					the floor plan	floor plan

			designed to a community.	 designed. Present the pitch of the floor plan design to a community group. 		
Resources						
What instructional resources can be used for teacher and/or student?						
10 Best Game and Entertainment Centers in Chicago: https://www.tripadvisor.com/Attractions-g35805-Activities-c56-t110-Chicago_Illinois.html						
 How To Write An Effective Pitch Letter: <u>https://www.elirose.com/2011/07/pitch-letter/?cn-reloaded=1</u> 						
 5 Ways to Successfully Pitch Ideas to Clients and Investors: <u>http://creativeoverflow.net/5-ways-to-successfully-pitch-ideas-to-clients-investors/</u> 						
 Lesson Plan: Divide a whole number by a unit fraction by drawing a picture: 						

https://learnzillion.com/lesson_plans/233-divide-a-whole-number-by-a-unit-fraction-by-drawing-a-picture/lesson