

## **CSCOPE** Documents

• Curriculum

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• VAD - Vertical Alignment Documents

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- YAG Year at a Glance
- IFD Instructional Focus Documents
- Instruction
  - Exemplar Lessons
- Assessment
  - Unit Assessments

### Instructional Focus Document

Marzano, Tominson, Wiggins, and McTighe

• used to group (bundle) specific standards from the VAD and YAG into a logical sequence for instruction

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• describe the concepts for each instructional unit

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• IFDs include

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- standards which are directly taught in each block of instruction with a rationale explaining why the standards ar bundled in the specified groupings
- academic language of instruction
- key understandings
- guiding questions
- possible student misconceptions
- performance indicators to ensure standards are attained at the required level of rigor

INSTRUCTIONAL FOCUS DOCUMENT Sixth Grade/Mathematics			CSCOPE"
UNIT: 01 TITLE: Rational Num	bers	SUG	GESTED DURATION: 17 days
Exemplar Lesson 01: Equivalent Rational N	umbers and Percents	State Resources: MTC 6 – 8: Peanut Butter Fudge http://www.tea.state.tx.us/math/training Mathematics TEKS Toolkit: TEKS Co http://www.utdanacenter.org/mathtoolk MSTAR Math Academy: Day 3 – Rep	y/materials/MTC/index.htm arifying Activity/Lesson/Assessment airlindex.php resenting Fractions
RATIONALE:			
This unit bundles student expectations that percents as fractions and decimals and with	address generating equivalent forms concrete models in order to compar	of rational numbers through a variety of e and order rational numbers in a variet	f models, as well as representing y of equivalent forms.
become flexible in moving from one represe According to the National Council of Teach and percents. At the heart of flexibility in wo In the middle grades, students should build can develop a deep understanding of ration models, and objects. These models offer st flexible movement among them to solve pro representations of quantities" (pp. 215-216) National Council of Teachers of Mathematics. (2000).	ntation to the next in order to solve p rs of Mathematics (2000), "In the mit rking with rational numbers is a solid on and extend this experience to be al numbers through experiences with dents concrete representations of a blems. As they solve problems in co	roblems involving computation with ratio idle grades, students should become fa understanding of different representatio come facile in using fractions, decimals, a variety of models, such as fraction st softract ideas and support students' mea ntext, students can also consider the ad ccs. Reston, VA: National Council of Teachers of t	anal numbers (Unit 03). cile in working with fractions, decimals, ons for fractions, decimals, and percents. and percents meaningfully. Students trips, number lines, 10 x 10 grids, area ningful use of representations and their vantages and disadvantages of various Authematics, Inc.
	EVELOPED CONCEPTS:		
MISCONCEPTIONS:	tor and denominator in a fraction and the larger numbers in the denominator	e two separate whole numbers instead o ir have a greater value than fractions will value	of a single numerical value. Ih a smaller denominator.
<ul> <li>Some students may think that the numera</li> <li>Some students may think that fractions w</li> <li>Some students may think that 50% and the students may t</li></ul>	e whole number 50 have the same	alde.	
Some students may think that the numer.     Some students may think that fractions w     Some students may think that 50% and the students may the students may think that 50% and the students may think that 50% and the students may think that 50% and the students may the students ma	e whole number 50 have the same		



### INSTRUCTIONAL FOCUS DOCUMENT Sixth Grade/Mathematics



#### de/Mathematics

6.1B		
	Generate equivalent forms of rational numbers including whole numbers, fractions, and	Represent, Use, Generate
	decimals.	FOUNDALENT FORMS OF NON-NEGATIVE RATIONAL NUMBERS
		Including, but not limited to:
		<ul> <li>whole numbers, fractions, and decimals</li> </ul>
		<ul> <li>variety of models to represent equivalent forms of rational numbers</li> <li>real-world problems</li> </ul>
		Note:
		<ul> <li>5th grade develops equivalent fractions, mixed numbers, and improper fraction.</li> </ul>
		from concrete to pictorial.
6.3	Patterns, relationships, and algebraic thinking. The student solves problems involving direct proportional relationships. The student is expected to:	
6.3B	Represent ratios and percents with concrete models, fractions, and decimals.	Solve, Represent
		PERCENTS
		Including, but not limited to:
		<ul> <li>percents using concrete models, fractions and decimals</li> </ul>
		<ul> <li>percento dollag concrete modelo, naciono una acomitato</li> </ul>
		real-world problems using concrete models involving percents
EKS# SE# 6.11	Ongoing Underlying Processes and Mathematical Tools TEP	real-world problems using concrete models involving percents
EKS# SE# 6.11	Ongoing Underlying Processes and Mathematical Tools TEP Underlying processes and mathematical tools. The student applies Grade 6 mathematics discibilines, and activities in and outside of school. The student is expected to:	real-world problems using concrete models involving percents  S so solve problems connected to everyday experiences, investigations in other
EKS# SE# 6.11 6.11A	Ongoing Underlying Processes and Mathematical Tools TEP Underlying processes and mathematical tools. The student applies Grade 6 mathematics i disciplines, and activities in and outside of school. The student is expected to: Identify and apply mathematics to everyday experiences, to activities in and outside of sch	real-world problems using concrete models involving percents
EKS# SE# 6.11 6.11A 6.11B 6.11C	Ongoing Underlying Processes and Mathematical Tools TEP Underlying processes and mathematical tools. The student applies Grade 6 mathematics i disciplines, and activities in and outside of school. The student is expected to: identify and apply mathematics to everyday experiences, to activities in and outside of sci Use a problem-solving model that incorporates understanding the problem, making a plan Solect or devolo an appropriate problem-solving strategy from a variety of different types	real-world problems using concrete models involving percents
EKS# SE# 6.11 6.11A 6.11B 6.11C	Ongoing Underlying Processes and Mathematical Tools TEP Underlying processes and mathematical tools. The student applies Grade 6 mathematics disciplines, and activities in and outside of school. The student is expected to: identify and apply mathematics to everyday experiences, to activities in and outside of sci Use a problem-solving model that incorporates understanding the problem, making a plan Select or develop an appropriate problem-solving strategy from a variety of different types checking, acting I out, making a table, working a simpler problem, or working backwards	real-world problems using concrete models involving percents  s s s s s s s s s s s s s s s s s s
EKS# SE# 6.11 6.11A 6.11B 6.11C 6.11D 6.12	Ongoing Underlying Processes and Mathematical Tools TEP Underlying processes and mathematical tools. The student applies Grade 6 mathematics i disciplines, and activities in and outside of school. The student is expected to: Use a problem-solving model that incorporates understanding the problem, making a plan Select of device) an appropriate problem-solving strategy from a variety of different types checking, acting I out, making a table, working a simpler problem, or working backwards Select to device as real objects, manipulatives, paperpendit, and technology or techniqu Underlying processes and mathematical tools. The student communicates about Grade 6 working.	real-world problems using concrete models involving percents  to solve problems connected to everyday experiences, investigations in other hool, with other disciplines, and with other mathematical topics;     carrying out the plan, and evaluating the solution for reasonableness;     i, including darwing a picture, looking for a pattern, systematic guessing and to solve a problem; and es such as mental math, estimation, and number sense to solve problems, and mathematics through informal and mathematical language, representations, and
EKS# SE# 6.11 6.11A 6.11B 6.11C 6.11D 6.12 6.12A	Ongoing Underlying Processes and Mathematical Tools TEP Underlying processes and mathematical tools. The student applies Grade 6 mathematics i disciplines, and activities in and outside of school. The student is expected to: litentify and apply mathematics to everyday experiences, to schivities in and outside of sci Dise a problem-doving model that incorporates understanding the problem, making a plan Select or develop an appropriate problem-activity in a variety of different types checking, acting it out, making a table, working a simpler problem, or working backwards Underlying processes and mathematical tools. The student commuticates about Grade Q models. The student is expected to: Communicate mathematical lines using language. efficient tools, appropriate units, and	real-world problems using concrete models involving percents      so solve problems connected to everyday experiences, investigations in other     hool, with other disciplines, and with other mathematical topics;     , carrying out the plan, and evaluating the solution for reasonableness;     , including drawing a picture, looking for a pattern, systematic guessing and     to solve a problem; and, estimation, and number sense to solve problems,     anathematics through informal and mathematical inguage, representations, and     mathematics through informal and mathematical models; and
EKS# SE# 6.11 6.118 6.110 6.110 6.12 6.124 6.128	Ongoing Underlying Processes and Mathematical Tools TEP Underlying processes and mathematical tools. The student applies Grade 6 mathematics i disciplines, and activities in and outside of school. The student is expected to: Use a problem-solving model that incorporates understanding the problem, making a plan Select or develop an appropriate problem-solving strategy from a variety of different types checking, acting it out, making a table, working a simpler problem, or working backwards Select to develop an appropriate problem-solving strategy from a variety of different types checking, acting it out, making a table, working a simpler problem, or working backwards Select tool seval as a real objects, manipulatives, paperforanci, and technology or techniqu Underlying processes and mathematical tools. The student communicate sabout Grade 6 models. The student is expected to: Communicate mathematical dires using language, efficient tools, appropriate units, and g Evaluate the effectiveness of different trepresentations to communicate index.	real-world problems using concrete models involving percents  ts  ts  ts  ts  ts  ts  ts  ts  ts
EKS# SE# 6.11 6.11A 6.11B 6.11C 6.11D 6.12 6.12 6.12A 6.12B 6.13	Ongoing Underlying Processes and Mathematical Tools TEH Underlying processes and mathematical tools. The student applies Grade 6 mathematics i disciplines, and activities in and outside of school. The student is expected to: litentify and apply mathematics to everyday experiences, to activities in and outside of sci Dise a problem-doving model that incorporates understanding the problem, making a plan Select or develop an appropriate problem-activity in a variety of different types checking, acting it out, making a table, working a simpler problem, or working backwards underlying a tool and appropriate problem-activity and technology or techniqu Underlying processes and mathematical tools. The student communicates about Grade 6 models. The student is expected to: Communicate mathematical divises using language, efficient tools, appropriate units, and Evaluate the effectiveness of different representations to communicate ideas.	real-world problems using concrete models involving percents      so solve problems connected to everyday experiences, investigations in other hool, with other disciplines, and with other mathematical topics;     carrying out the plan, and evaluating the solution for reasonableness;     including drawing a picture, looking for a pattern, systematic guessing and     to solve a problem; and     solve a problem; and unable solution for neasonableness;     such as montal math, estimation, and number sense to solve problems, and     amathematics through informal and mathematical language, representations, and     raphical, numerical, physical, or algebraic mathematical models; and     e conjectures and verify conclusions. The student is expected to:
EKS# 5E# 6.11 6.118 6.110 6.110 6.12 6.120 6.124 6.128 6.133 6.133	Ongoing Underlying Processes and Mathematical Tools TEP Underlying processes and mathematical tools. The student applies Grade 6 mathematics i disciplines, and activities in and outside of school. The student is expected to: Use a problem-solving model that incorporates understanding the problem, making a plan Select or devole on appropriate problem-solving strategy from a variety of different types checking, acting it out, making a table, working a simpler problem, or working backwards select to devole an appropriate problem-solving strategy from a variety of different types checking, acting it out, making a table, working a simpler problem, or working backwards select tools such as real objects, manipulatives, paperfoncil, and technology or techniqu Underlying processes and mathematical tools. The student communicate ideas. Communicate mathematical ideas using language, efficient tools, appropriate units, and g Evaluate the effectiveness of different types rations to communicate ideas. Underlying processes and mathematical tools. The student uses bagical reasoning to matk Make conjectures from patterns or sets of examples and nonexamples; and	real-world problems using concrete models involving percents      solve problems connected to everyday experiences, investigations in other     hool, with other disciplines, and with other mathematical topics;     i, carrying out the plan, and evaluating the solution for reasonableness;     i, including drawing a picture, looking for a pattern, systematic guessing and     to solve a problem; and     es such as mental math, estimation, and number sense to solve problems.     mathematics through informal and mathematical language, representations, and     raphical, numerical, physical, or algebraic mathematical models; and     e conjectures and verify conclusions. The student is expected to:

# January's Board Meeting Focus

• Exemplar Lessons

