

Grade 6 Unit 3- Unit Rates and Percentages

Section: Units of Measurement/Unit Conversion Lessons 1-4

Goals:

- Students learn to understand and use the terms “unit rate”, “speed”, “pace”, “percent”, and “percentage and recognize that equivalent ratios have equal unit rates.
- Be able to represent percentages with tables, tape diagrams, and double number line diagrams, and as expressions.
- Use terms and representations in reasoning about situations involving unit price, constant speed, and measurement conversion.
- [6th Grade Unit 3- I Can Statements](#)
- [Unit 3 Planning Summary](#) and [6th Grade Unit 3- Glossary Terms](#) and [Unit 3 Quizlet](#)
- [6th Grade Unit 3- Adaptation Guide](#) & [6th Grade Cool Down Support](#)
- [Unit 3- Lesson Video Summaries](#)

IM Lesson	L1: The Burj Khalifa	L2: Anchoring Units of Measurement	L3: Measuring with Different-Sized Units	L4: Converting Units
Ar Math Content Standards	6.RP.A.2	6.RP.A.2	6.RP.A.3.d	6.RP.A.3.d
AR Math Practice Standards	MP. 1, 4	MP. 1, 3	MP 7	MP. 1, 3
Vocabulary Focus				
Lesson Materials/ Resources	L1- Slide Deck L1.1- Student Tasks Desmos L1- Geogebra Activity L1- Nearpod Activity L1- Video 4-function calculator	L2: Slide Deck L2: Nearpod L2- Student Tasks Desmos L2: Geogebra Activity L2- Blackline Master Household items Meter sticks Qt size bottle Ruler Scissors String yardsticks	L3: Slide Deck L3: Blackline Master L3- Station Activity L3: Desmos Activity L3: Geogebra Activity Base ten blocks Cuisenaire rods Gallon, liter, qt bottle Graduated cylinders Inch cubes Metal paper fasteners Paper clips Meter sticks, rulers Polyhedra Salt Scale Teaspoon Tray Station 3- Video	L4: Slide Deck L4: Desmos Activity L4: Geogebra Activity L4: Khan Academy 4-function calculator

Assessment	Practice Problems	Practice Problems	Practice Problems	Practice Problems
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Section: Rates Lessons 5-9

IM Lesson	L5: Comparing Speeds and Prices	L6: Interpreting Rates	L7: Equivalent Ratios Have the Same Unit Rates	L8: More About Constant Speed	L9: Solving Rate Problems
Ar Math Content Standards	6.RP.A.2, 6.RP.A.3.b	6.RP.A.2, 6.RP.A.3.b, 6.RP.A.3	6.RP.A.2, 6.RP.A.3.b, 6.RP.A.3	6.RP.A.3.b, 6.RP.A.3	6.RP.A.3.b, 6.RP.A.3.d, 6.RP.A.3
AR Math Practice Standards	MP. 2	MP. 3	MP. 8	MP. 1, 3	MP. 1
Vocabulary Focus	Unit price	Unit rates	Constant of proportionality	Pace speed	
Lesson Materials/ Resources	L5- Slide Deck L5- Desmos Activity L5: Geogebra Activity L5: Khan Academy Grocery story ads "3 for \$5"	L6: Slide Deck L6- Khan Academy Lesson L6- Desmos Activity L6- Video for L6: Geogebra Activity	L7: Slide Deck L7- Student Task Desmos L7: Geogebra Activity	L8: Slide Deck L8- Student Task Desmos L8: Geogebra Activity Chart paper markers	L9: Slide Deck L9- Student Task Desmos L9: Geogebra Activity 4-function calculator L9: Blackline Master L9- Khan Academy
Assessment	Practice Problems-Google Forms	Practice Problems	Study Guide for 1-7 Practice Problems	Practice Problems	Practice Problems

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Section: Percentages Lessons 10-16

IM Lesson	L10: What are Percentages?	L11: Percentages and Double Number Lines	L12: Percentages and Tape Diagrams	L13: Benchmark Percentages	L14: Solving Percentage Problems	L15: Finding This Percent of That	L16: Finding the Percentage
Ar Math Content Standards	6.RP.A.3.c	6.RP.A.3.c	6.RP.A.3.c	6.RP.A.3.c	6.RP.A.3.c	6.RP.A.3.c, 6.RP.A.3	6.RP.A.3.c
AR Math Practice Standards	MP. 6	MP. 7	MP. 6	MP. 7	MP. 1, 6	MP. 3, 8	MP. 7
Vocabulary Focus	percentages percent						
Lesson Materials/ Resources	L10- Slide Deck L10- Geogebra Activity L10- Video for Teachers L10: Desmos Activity	L11: Slide Deck L11: Geogebra Activity L11- Video for Teachers Chart paper markers	L12: Slide Deck L12- Khan Academy L12-Geogebra Activity L12- Video for Teachers	L13: Slide Deck L13- Khan Academy L13- Geogebra Activity	L14: Slide Deck L14- Khan Academy Practice L10: Desmos Activity L14- Geogebra Activity Info Gap Blackline Master	L15: Slide Deck L15- Khan Academy Practice L15: Video for Teachers L15- Geogebra Activity	L16: Slide Deck L16- Khan Academy Practice L16: Video for Teachers L16- Geogebra Activity
Assessment	Practice Problems	Practice Problems	Practice Problems	Practice Problems	Practice Problems Quiz Lessons 10-14	Practice Problems	Practice Problems Study Guide End of Unit Test

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Section: Let's Put it to Work Lessons 17

IM Lesson	L17: Painting a Room
Ar Math Content Standards	6.G.A, 6.RP.A
AR Math Practice Standards	MP. 4, 5
Vocabulary Focus	
Lesson Materials/ Resources	L17- Slide Deck L17- Geogebra Activity
Assessment	