



BOE Approved 8/18

Cliffside Park Public Schools

Grade 1

Mathematics

Topic Name: Topic 11: Use Models and Strategies to Subtract Tens

Topic 12: Measure Lengths

Topic 13: Time

Resource: enVision Math 2.0, Pearson, 2016

Duration: March

Topic 11 (continued)

Topic 12 (7 days)

Topic 13 (6 days)

Enduring Understandings

Topic 12

- Objects can be compared and ordered by length.
- Two objects can be compared indirectly by comparing both to a third object.
- Measurement is a process of comparing a unit to the object being measured. The length of an object can be used as a measurement unit for length.
- Measurement is a process of comparing a unit to the object being measured. The length of an object can be used as a measurement unit of length. Objects can be measured to compare and order their lengths and heights.
- Good math thinkers know how to pick the right tools to solve math problems.

Topic 13

- The hour hand tells the hour, and the minute hand tell the number of minutes before or after the hour, when telling time on a clock.
- Time to the hour can be shown on an analog or on a digital clock and can be written in two ways: ____ o'clock or ____:00



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- Time can be given to the half hour.
- Good math thinkers know how to think about words and number to solve problems.

Essential Questions

Topic 12

- How can you put three objects in order from shortest to longest?
- How can you compare the length of two objects by using a third object?
- How would you use connecting cubes to measure the length of an object?
- How would you use connecting cubes to order the lengths of three objects?
- How do you use tools to measure the length of a curvy objects?

Topic 13

- How do the hands of a clock show you that it is 5 o'clock?
- How do the two different types of clocks show you time to the hour?
- How can you show time to the half hour on the two different types of clocks?
- How do you use reasoning to solve problems about a schedule?

Focus of Standards

Student Outcomes	Skills	Assessments	Resources
Topic 12 <ul style="list-style-type: none"> • I can order objects by length. • I can indirectly compare objects by length. • I can use objects like cubes to measure length. • I can use cubes and other units to compare lengths and heights of objects. • I can choose an appropriate tool and use it to measure a given object. 	<ul style="list-style-type: none"> • Solving problems • Understanding concepts • Reasoning 	Formative <ul style="list-style-type: none"> • Diagnostic assessment • Exit tickets • Round robin group work • Analysis of homework • Class polls 	Texts <ul style="list-style-type: none"> • enVision math 2.0 Digital <ul style="list-style-type: none"> • Student/Teacher eText • Interactive math story • Home-school



<p>Topic 13</p> <ul style="list-style-type: none"> • I can tell time to the hour. • I can tell time to the hour using 2 different types of clocks. • I can tell time to the half hour. • I can use reasoning to tell and write time. 		<ul style="list-style-type: none"> ○ Show of hands: 1 for all set, 2 for just ok, 3 for help • One thing I learned/One thing I need work on <p>Summative</p> <ul style="list-style-type: none"> • End topic tests • Post group topic • EOY tests • SGO tests <p>Benchmark</p> <ul style="list-style-type: none"> • Diagnostic Assessment • Pearson benchmark tests <p>Alternative</p> <ul style="list-style-type: none"> • Math diagnosis and intervention system 2.0 • Reteaching Set • Online Learning <ul style="list-style-type: none"> ○ Games • Higher Order Thinking Problems • Leveled homework and practice • Center games 	<p>connection</p> <p>Classroom Math Materials</p> <ul style="list-style-type: none"> • Pencil • Paintbrush • Marker • Yarn • Classroom objects • String • Connecting Cubes • Paper clips • Pennies • Geared demonstration clock • Analog clock • Chart paper • Construction paper shapes • Pattern blocks • 3-D shapes
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		<ul style="list-style-type: none"> • One on one conferencing 	
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Vocabulary

Topic 12

length, longer, longest, shorter, shortest, measure, length unit

Topic 13

hour, hour hand, minute, minute hand, o'clock, half hour

NJ Student Learning Standards: Mathematics

Measurement and Data

1.MD.A.1 Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.

1.MD.A.2 Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen.

1.MD.B.3 Tell and write time in hours and half-hours using analog and digital clocks.

Standards for Mathematical Practice

MP1. Make sense of problems and persevere in solving them.

MP2. Reason abstractly and quantitatively.

MP3. Construct viable arguments and critique the reasoning of others.

MP4. Model with mathematics.

MP5. Use appropriate tools strategically.

MP6. Attend to precision.

MP7. Look for and make use of structure.

MP8. Look for and express regularity in repeated reasoning.

Career Ready Practices

CRP1. Act as a responsible and contributing citizen and employee.

CRP2. Apply appropriate academic and technical skills.

CRP3. Attend to personal health and financial well-being.

CRP4. Communicate clearly and effectively and with reason.



CRP5. Consider the environmental, social and economic impacts of decisions.

CRP6. Demonstrate creativity and innovation.

CRP7. Employ valid and reliable research strategies.

CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.

CRP9. Model integrity, ethical leadership and effective management.

CRP10. Plan education and career paths aligned to personal goals.

CRP11. Use technology to enhance productivity.

CRP12. Work productively in teams while using cultural global competence.

NJSLS Technology Standards

8.1 Educational Technology

E: Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.

8.1.2.E.1 Use digital tools and online resources to explore a problem or issue.

8.2 Technology Education, Engineering, Design, and Computational Thinking

E. Computational Thinking: Programming: Computational thinking builds and enhances problem solving, allowing students to move beyond using knowledge to creating knowledge.

8.2.2.E.1 List and demonstrate the steps to an everyday task.

Interdisciplinary Connections

NJSLS for ELA and Science are introduced, developed, and practiced in the context of learning math content and engaging in mathematical practices.

ELA

- NJSLSA.R7. Integrate and evaluate content presented in diverse media and formats, including visually and quantitatively, as well as in words.
- RI.1.3. Describe the connection between two individuals, events, ideas, or pieces of information in a text.
- RI.1.4. Ask and answer questions to help determine or clarify the meaning of words and phrases in a text.

Science

- 1-PS4-1 Scientists use different ways to study the world.



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- 1-LS1-2 Scientists look for patterns and order when making observations about the world.

NJSLS: 21st Century Life and Careers

Key Subjects and 21st Century: Themes Mastery of key subjects and 21st century themes is essential to student success. Key subjects include English, reading or language arts, world languages, arts, mathematics, economics, science, geography, history, government and civics. In addition, schools must promote an understanding of academic content at much higher levels by weaving 21st century interdisciplinary themes into key subjects:

- Global Awareness
 - Financial, Economic, Business and Entrepreneurial Literacy
- 9.1.4.A.2 Identify potential sources of income
9.1.4.C.5 Determine the relationship among income, expense and interest
9.1.4.D.2 Explain what it means to “invest”.



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Integrated Differentiation/Accommodations/Modifications <i>(Alternate Modes of Instruction and Support)</i>		
Modifications to Support Gifted and Talented Students	Modifications to Support English Language Learners	Modifications to Support Our Learners (Students with IEPs/504s and At-Risk Learners)
<p>Provide appropriate challenge for wide ranging skills and development areas.</p> <p>Participate in inquiry and project-based learning units of study</p> <p>Assigning roles within partnerships</p> <p>Differentiated supports: content, process, product, environment</p>	<p>Native Language Translation (peer, online assistive technology, translation device, bilingual dictionary)</p> <p>Pair visual prompts with verbal presentations</p> <p>Front Load and immerse students in literacy and language experiences related to content</p> <p>Provide students with visual models, sentence stems, concrete objects, and hands-on materials.</p> <p>Model procedures for life skills.</p> <p>Collaboration between ELL and general education teacher to maximize learning</p>	<p>Review student individual educational plan and/or 504 plan.</p> <p>Establish procedures for accommodations and modifications for assessments as per IEP/504.</p> <p>Establish procedures for modification of classwork and homework as per IEP/504.</p> <p>Modify classroom environment to support academic and physical needs of the students as per IEP/504.</p> <p>Provide appropriate accommodations, instructional adaptations, and/or modifications as determined by the IEP or 504 team.</p> <p>Differentiation through content, process, product, environment</p> <p>Provide Title I services to students not meeting academic standards in ELA and/or Math.</p> <p>Provide instructional adaptations and interventions in the general education classroom.</p> <p>Modify classroom environment to support student needs.</p> <p>Differentiated instruction</p>



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		Basic Skills
		Intensive individual intervention
Sources New Jersey Student Learning Standards (2016) http://www.state.nj.us/education/cccs/2016/math/standards.pdf New Jersey Student Learning Standards: Technology (2014) - http://www.state.nj.us/education/cccs/2014/tech/8.pdf New Jersey Student Learning Standards: ELA (2014) - https://www.state.nj.us/education/cccs/2016/ela/g01.pdf New Jersey Science and Engineering Practices - https://www.state.nj.us/education/aps/cccs/science/resources/QRk2.pdf 21st Century Life and Careers: https://www.state.nj.us/education/cccs/2014/career/91.pdf Pearson enVision 2.0 (2016) https://www.pearsonrealize.com/index.html#/		