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Lesson Plan Template

Learning Segment Focus: Length Measurement

Lesson <u>1 of 1</u> Topic: <u>Math</u> Date: <u>05/04/2021</u> Grade: <u>2nd</u>

Student Outcomes

Specific learning objectives for	Given a Rocketbook, a regular ruler, and the Smart Ruler app on their iPad, students will measure
this lesson.	the length of objects around the room and record them in inches and centimeters.
Justify how learning tasks are	Students have learned the foundations of measurement and are ready to expound on the different
appropriate using examples of	types, starting with length.
students' prior academic	
learning.	
Justify how learning tasks are	Regardless of background, measurement helps us to develop special concepts and relates to later
appropriate using examples of	mathematics. It helps us relate to the world around us and can be useful in clothing, housing,
students' personal, cultural,	driving, eating, and just about every aspect of our lives.
linguistic, or community	
assets.	

State Academic Content Standards

List the state academic content	AR.Math.Content.2.MD.A.2 – Measure the length of an object twice with two different
standards with which this lesson is	length units. Describe how the two measurements relate to the size of the unit chosen.
aligned. Include abbreviation, number	For example: A desktop is measured in both centimeters and inches. Student compares the
& text of the standard(s).	size of the unit of measure and the number of those units.

Key Vocabulary

What vocabu	ary terms/content specific	Measurement, length, inch, centimeter
terminology 1	nust be addressed for	
students to ma	ster the content?	

Academic Language Support

What are the Academic Language Function(s) (the content	Students will measure objects in inches and centimeters using their
and language focus of the learning task represented by the	standard ruler and Smart Ruler app on the iPad and record their
active verbs within the learning objectives/outcomes) and	answers in the Rocketbook. They will see how inches compare to
explain how they are utilized in the lesson plan?	centimeters and if the Smart Ruler app is accurate. Before we begin, I
What planned Academic Language Supports will you use	will review how to measure with both the ruler and Smart Ruler, as
to assist students in their understanding of key academic	well as the difference between inches and centimeters. I will explain
language to express and develop their content learning and to	that different countries use different measurement systems, and that
provide varying supports for students at different levels of	students may even encounter different systems in their immediate
Academic Language development? How do these supports	environment. I will walk around the room during the activity to help
address all three Academic Language Demands	students if they need it.
(vocabulary, syntax, and discourse)?	-

Materials

Materials needed by the teacher for this lesson. (such as books, writing materials, computers, models, colored	iPad with Smart Ruler app standard ruler
paper, etc.)	
Materials needed by students for this lesson. (computers,	iPad with Smart Ruler app, standard ruler, and 1 Rocketbook with
journals, textbook, etc.)	compatible pens for each pair of students

Amount of Time	Teaching & Learning Activities (This should be a BULLETED LIST)	Describe what YOU (teacher) will be doing and/or what STUDENTS will be doing during this part of the lesson. (This should be VERY DETAILED)
5 minutes	 Introduction: Brief overview of entire activity Pass out materials 	First, I will describe the entire activity to the students while they are sitting at their desks. I will then pair students up and tell them to start.
20 minutes	Instruction: • Measuring	Students will walk around in pairs looking for objects to measure. They must measure at least 5 objects that they find in the classroom that can be measured with a standard ruler. They will measure each object with both the ruler and Smart Ruler and record their measurements in inches and centimeters, so there will be four measurements for each object. When they have measured their 5 things, they will scan their Rocketbook page with their iPad and turn it in to Google Classroom. Then they will wait for the rest of the class to finish.
10 minutes	Closure: • Compare ruler to Smart Ruler app	When everyone has finished, I will start a discussion about how the Smart Ruler compares to the standard ruler. If used correctly, the Smart Ruler should measure the same as the standard ruler. We will talk about user error and that we may need to measure more than once to get the most accurate number.

Lesson Timeline with Instructional Strategies & Learning Tasks

Technology Integration

Provide your rationale for your technology choices that accurately reflects those choices within your teaching context. Identify what technology(s) you are using as part of your lesson plan. Describe how the use of technology aligns to your learning objectives, content standards, and central focus. Explain how technology-based instructional strategies are essential to students accomplishing the learning objectives (beyond what could be accomplished without using the technology). Specify how the technology selections meet or exceed the needs/strengths of all students. Justify the "fit" of chosen technologies, showing how the content, instructional strategies, and technology "fit" together.	The Smart Ruler app is a great tool to use when measuring things big or small. It acts as a tape measure, and in theory can measure an unlimited length. It would be a great resource for students to use in their future classes as well as out in the real world. It also acts as an additional ruler to double check their standard ruler measurements. The Rocketbooks' pages can be scanned via QR code and turned in digitally before being erased and reused, making it much easier to keep up with the students' work than physical copies.
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Accommodations/Modifications

How might I modify instruction for:	Accommodations and modifications will depend on the students in my classroom.
Remediation?	I can partner students up so that those who may need extra help will have someone
Intervention?	that can help them. I will also be walking around to help however necessary.
IEP/504?	Students who need to sit can have objects brought to them. Many other strategies
LEP/ESL?	could be implemented depending on the students present.
(All students who have plans mandated by	
federal and state law.)	

Differentiation

How might you provide a variety of	Students will have a partner that can help them during the activity. They can also
techniques (enhanced scaffolding, explicit	choose whatever objects they wish to measure if they can be measured with a
instruction, contextualized materials,	standard ruler. Those students who need extra time may be given fewer objects to
highlighters/color coding, etc.) to ensure all	measure and those that need more of a challenge may measure more objects or
student needs are met?	figure out how to measure something with a standard ruler that is longer than the
(All students who are not on specific plans	ruler.
mandated by federal and state law.)	

Assessments: Formative and/or Summative

Describe the tools/procedures that will be used in this lesson to monitor students'	Formative / - Summative	As I walk around the room during the activity, I will be able to see if students are using their
		•
learning of the lesson objective(s) (include		ruler and Smart Ruler correctly to get accurate
type of assessment & what is assessed).		measurements.
	🖵 Formative / 🗖 Summative	Students will turn in a digital copy of their
		measurements from their Rocketbooks on
		Google Classroom. I will use these to compare
		their measurements with other students as well
		as what I may have measured the object to be.
		This will help me determine how well my
		students understand measurement of length.

Research/Theory

Explain connections to theories and/or research (as well as experts in the field or national organization positions) that support the approach you chose and justify your choices using principles of the connected	This lesson correlates well with Skinner's transfer of learning theory which explains that students can absorb information in one setting and apply it to something else. Students will have already been introduced to the use of rulers for measurement and will apply this knowledge to a practical activity.
theories and/or research.	Vygotsky proposed that learning has a unique social aspect. By working with others, they can help each other and may learn from one another.
	This activity also allows for multisensory instruction. They will be up and moving about the classroom measuring various objects. They are engaging with the material instead of just passively listening to a teacher lecture to them.

Lesson Reflection/Evaluation

What went well?	TO BE FILLED IN AFTER TEACHING
What changes should be made?	
How will I use assessment data for next	
steps?	

Include supporting material such as slides, pictures, copy of textbook, and handouts for any activities students will be using as part of your lesson.

- *adapted from: http://webcache.googleusercontent.com/search?q=cache:EsQcNWuG1ZoJ:web.mnstate.edu/harms/StudentTeachers/edTPA-LessonPlan.doc+&cd=2&hl=en&ct=clnk&gl=us; http://www.moreheadstate.edu/getmedia/cd3fd026-939f-4a47-a938-29c06d74ca01/Lesson-Plan-and-Reflections.aspx;
- http://www.mcneese.edu/f/c/9cb690d2/Lesson%20Plan%20Rubric%20Aligned%20with%20InTASC.docx;https://www.uwsp.edu/education/Documents/edTPA/Resource11.pdf;
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