Name: <u>Nate Tiner</u>

Math Lesson Plan

Learning Segment Focus: <u>Applying Probability to Real Life</u>

D_{1}	Lesson 1	1 (of	1	To	pic:	Math/Probability	Date:	4/28/21	Grade: 8t
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Student Outcomes

Specific learning objectives for	Students will be able to use already known concepts and apply them to a real-life situation
this lesson.	
Justify how learning tasks are	Students should know all these concepts and briefly know how to apply them, but this will apply
appropriate using examples of	them in a more applicable way.
students' prior academic	
learning.	
Justify how learning tasks are	Students are always asking what is the point of learning this, especially in regards to math, this will
appropriate using examples of	show them how they might use it in the future if they enter a particular field or in general.
students' personal, cultural,	
linguistic, or community	
assets.	

State Academic Content Standards

List the state academic content standards with which this lesson is aligned. Include abbreviation, number & text of the standard(s).	 AR.Math.Content.8.SP.A.1 Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association

Key Vocabulary

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What vocabulary terms/content specific	- Scatter plots
terminology must be addressed for	- Bivariate measurement data
students to master the content?	- Clustering
	- Outliers
	- Positive/Negative association
	- Linear/Nonlinear association

Academic Language Support

What are the Academic Language Function(s) (the content	
and language focus of the learning task represented by the	Students are already familiar with the content and will use keywords
active verbs within the learning objectives/outcomes) and	to know exactly how to solve a problem, just as they did after they
explain how they are utilized in the lesson plan?	originally learned the content. They will be reminded on it
What planned Academic Language Supports will you use	throughout the lesion and while working on examples.
to assist students in their understanding of key academic	
language to express and develop their content learning and to	
provide varying supports for students at different levels of	
Academic Language development? How do these supports	
address all three Academic Language Demands	
(vocabulary, syntax, and discourse)?	

Materials

Materials needed by the teacher for this lesson. (such as books, writing materials, computers, models, colored paper, etc.)	 Access to Computer/internet Smart Board/Pens Projector Worksheets to pull up and pass out Project Details Sheet
Materials needed by students for this lesson. (computers, journals, textbook, etc.)	 Pencil Paper Worksheets to work on School Issued Device Project Details Sheet

Lesson Timeline with Instructional Strategies & Learning Tasks

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)
15 Minutes	Introduction Introduction Review Explanation	I will welcome students to class, talk about we just finished our last probability test (that I'm still grading) but I just want to review a lot of the topics that I think are very important and that can be applicable to real-life situations. I will start by pulling up a worksheet that has a couple problems from the entire Statistics/Probability unit, and I will have students help me complete them. After we complete the quick review I will say something like this: "Well its good you remember how to do these things, because today we are going to use those concepts and see how you would use them in your lives." "We will be watching a video that explains different ways to apply them and work on some problems ourselves. Then we will look at your Statistics/Probability Unit Project."
50 Minutes	 Instruction: Video Practice Problems as a group Individual Work Project Explanation 	I will have the video on standby to watch, we will watch the video, depending on how well the class understands the content, I might pause and ask questions throughout at various points. After the video is over I will recap it by asking a few questions. After that I will have a worksheet, really a small packet, but it only has a few problems on it, with a lot of room for the students to show their work. We will do this together and I will call on students to show me how to do it, and help if needed too. After that I will pass out another packet for the students to work on their own. We will then grade it in class by passing it out to another student. After that they will pass them back to see how they did. I will then introduce and explain their project where they need to find their own real-world application of

		using probability and make up some scenarios. They will present these after the project is due.
10 Minutes	 <u>Closure:</u> Recap Students start on project 	I will recap what students learned today, which was mostly review, I will then allow students to begin doing research on their school-issued devices for their projects.

Technology Integration

Accommodations/Modifications

How might I modify instruction for:	I would differentiate instruction for each. I would personally check in on each as
Remediation?	they are working inependtly and help when I need too. I would give them less
Intervention?	expectations on projects, for instance I might not have each of the students present
<i>IEP/504?</i>	their project in front of the whole class but maybe to a smaller group or just me if
LEP/ESL?	necessary.
(All students who have plans mandated by	
federal and state law.)	

Differentiation

How might you provide a variety of	I would over emphasis what is important, that might mean me highlighting
techniques (enhanced scaffolding, explicit	important parts of questions so they might know what a question is asking. I might
instruction, contextualized materials,	ask more of my gifted students, just like I might ask less of my struggling students
highlighters/color coding, etc.) to ensure all	on their projects. I will over explain things if I need too. The video will be an
student needs are met?	example as well on how to work word problems.
(All students who are not on specific plans	
mandated by federal and state law.)	

Assessments: Formative and/or Summative

Describe the tools/procedures that will be Formative / Summative	As a formative assessment I will ask students
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used in this lesson to monitor students'		to recall already learned concepts to help me
learning of the lesson objective(s) (include		answer questions. I will also be checking for
type of assessment & what is assessed).		understanding throughout by calling on them
	□ Formative /□ Summative	As another formative assessment, I will have
		students complete some word problems on
		their own with the pack that I give them. This
		will show me their interest level and how well
		they grasp what they just learned.
	— Formative / — Summative	As a summative assessment students will be
		asked to complete a project that will have
		them create their own realistic problem and
		have solve it. They can use the internet with
		help in creating their problem or situation.

Research/Theory

Explain connections to theories and/or	Bloom: This theorist is known for having students remember
research (as well as experts in the field or	concepts and create something new in regards to what content they
national organization positions) that support	are learning. Students will be asked to recall concepts and apply
the approach you chose and justify your	them to word problems. They will also be asked to think outside the
choices using principles of the connected	box and create their own that might be used in a job for their project.
theories and/or research.	

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: <u>http://webcache.googleusercontent.com/search?q=cache:EsQcNWuG1ZoJ:web.mnstate.edu/harms/StudentTeachers/edTPA-LessonPlan.doc+&cd=2&hl=en&ct=clnk&gl=us; <u>http://www.moreheadstate.edu/getmedia/cd3fd026-939f-4a47-a938-29c06d74ca01/Lesson-Plan-and-Reflections.aspx;</u></u>

http://www.mcneese.edu/f/c/9cb690d2/Lesson%20Plan%20Rubric%20Aligned%20with%20InTASC.docx;https://www.uwsp.edu/education/Documents/edTPA/Resource11.pdf;

https://www.uwsp.edu/education/Documents/edTPA/Resource11a.pdf; https://www.uwsp.edu/education/Documents/edTPA/LessonPlanTemplateSOE.docx; https://www.uwsp.edu/education/Documents/edTPA/SpecEdLessonPlanGuide.docx;

 $\underline{https://www.uwsp.edu/education/Documents/edTPA/SpecEdLessonPlanTemplate.docx}$