Jaymee Clemens STEM Lab STEM Lab Lesson Plans Weeks of Apr 18, 2022 - May 20, 2022

Each homeroom class will come to the STEM lab once every four weeks due to rotations. Each class will be in the STEM lab for 5 consecutive days. The classroom teacher and STEM lab teacher will be collaborating on literacy, writing assignments and various activities.

			Core Content
		Extra Duties 8:30-9:00 Breakfast Duty 12:00- 12:30 Lunch 9-9:20, 12:00-12:10, 3:15-3:40 Planning 3:40-3:50 Car Rider Duty	
9:20-10:10	5th	 Lesson / Activities STEM (See Special Area Schedule for Rotation/Class): Once a month for a 5 day notation. Students will learn STEM Standards, Problem Solving Skills, Robotics, Coding and Engineering Skills Day 1: Balancing Nails: Students will learn about the center of gravity. Students will try to figure out how to balance 12 nails on 1. Students will create a blueprint and design a way to complete the challenge. Teacher will demonstrate examples of the center of gravity and discuss how gravity affects objects returning to earth. Day 2: Newton's law of motion and gravity. Students will try to drop a weighted egg into a glass by using Newton's law of motion. Students will place the egg on top of a cardboard paper roll and then onto an aluminum pie pan. The students will knock the pie pan out and therefore the egg should drop into the glass of water. Day 3: Spinning Trays of Awesomeness. Students will place a cup of water onto a frisbee. The frisbee is attached to strings. Students will need to use Newton's first law of motion to be able to keep the water in the cup while spinning in a circle around their heads. Objects in motion ten to remain in motion unless acted upon by an external force. Day 4: Diaper Genie Air Balloon. Students will try to inflate a diaper genie liner the length of them with only one breath. Students will learn that if they hold the bag away from their face and blow the bag will inflate quickly because of low atmospheric pressure. The lower the pressure the faster the air moves and the higher the pressure the slower the air moves. Day 5: Baby diaper experiment. There are tiny crystals in a diaper that makes the diaper absorbent. The tiny crystals are super absorbent polymers. Students will remove the polymers from the diaper and try to absorb the water. The polymers can soak up as much as 800 times their weight in water. 	3-5-ETS1-1 Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost. 3-5-ETS1-2 Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.
		 Indoor activity for inclement weather and can't be outside: Students will continue to work on the Minecraft world. Students will begin to think about what types of things that they would need to live in a new world. Food, Water and Shelter. From there they will begin to construct things that they would need for survival and things that they would need in a true life setting. <i>Lesson/Activities Genius Hour (See Special Area Schedule for Rotation/Class):</i> Once a month for a 5 day rotation. This will include Art, Experiments, Geometry Lessons, Building Centers, Makerspace and STEM activities 	3-5-ETS1-3 Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.

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	explore interests and make visual or media arts platforms to express their interests. Students will be researching,	
	building, creating, and improving on their designs.	
	Day 4: Students will explore technology in the STEM lab. This will include Robots, technology, media arts and	
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	Student Friendly Standard (Learning Target) STEM:	
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	Day 2: I can explain newton's law of motion	
	Day 3: I can explain newton's law of motion	
	Day 4: I can explain the difference between high and low air pressure	
	Day 5 : I can explain polymers and how they can absorb large amount of liquid	
	Student Friendly Standard (Learning Target) Genius Hour:	
	Day 1: I can generate and conceptualize artistic works of art.	
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	Day 4: I can demonstrate and explain how the technology centers introduce me to careers that I can have in the	
	future.	
	Day 5 : I can demonstrate and explain how engineering centers introduce me to careers that I can have in the	
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	Key Vocabulary: Newton's Laws of Motion, gravity, high and low pressure, absorb	
	Modifications: ALL CLASSES HAVE INCLUSION OF ALL STUDENTS IN THE BUILDING: Please see	
	modification / accommodation sheets (located with teacher)	
	Instructional Method: Guided Discussion, Providing Descriptive Feedback, Reading, Direct Instruction, Audio/	
	Visual/ Technology, Workshop Model, Small groups, Demo Hands on, Partner / Pairs	
	Formative / Summative Assessment: Flash Back Exit Slip Bell Ringer Oral Questions Quiz Open Response	
	Constructed Response. On Demand. Multiple Choice. Presentation. Conferring. Live Scoring. Self-Evaluation. /	
 	Student Self-Assessment.	
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		problem reflecting a
		need or a want that
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		Day 1: Balancing Nails: Students will learn about the center of gravity. Students will try to figure out how to	criteria for success
		balance 12 nails on 1. Students will create a blueprint and design a way to complete the challenge. Teacher will	and constraints on
		demonstrate examples of the center of gravity and discuss how gravity affects objects returning to earth.	materials, time, or
10:15-11:05	4th	Day 2: Newton's law of motion and gravity. Students will try to drop a weighted egg into a glass by using Newton's	cost.
		law of motion. Students will place the egg on top of a cardboard paper roll and then onto an aluminum pie pan. The	
		students will knock the pie pan out and therefore the egg should drop into the glass of water.	3-5-ETS1-2
		Day 3: Spinning Trays of Awesomeness. Students will place a cup of water onto a frisbee. The frisbee is attached to	Generate and
		strings. Students will need to use Newton's first law of motion to be able to keep the water in the cup while spinning	compare multiple
		in a circle around their heads. Objects in motion ten to remain in motion unless acted upon by an external force.	possible solutions to a
		Day 4: Diaper Genie Air Balloon. Students will try to inflate a diaper genie liner the length of them with only one	problem based on how
		breath. Students will learn that if they hold the bag away from their face and blow the bag will inflate quickly	well each is likely to
		because of low atmospheric pressure. The lower the pressure the faster the air moves and the higher the pressure the	meet the criteria and
		slower the air moves.	constraints of the
		Day 5: Baby diaper experiment. There are tiny crystals in a diaper that makes the diaper absorbent. The tiny	problem.
		crystals are super absorbent polymers. Students will remove the polymers from the diaper and try to absorb the	
		water. The polymers can soak up as much as 800 times their weight in water.	3-5-ETS1-3
			Plan and carry out
		Indoor activity for inclement weather and can't be outside:	fair tests in which
		Students will continue to work on the Minecraft world. Students will begin to think about what types of things that	variables are
		they would need to live in a new world. Food, Water and Shelter. From there they will begin to construct things	controlled and failure
		that they would need for survival and things that they would need in a true life setting.	points are considered
			to identify aspects of a
		Lesson/Activities Genius Hour (See Special Area Schedule for Rotation/Class): Once a month for a 5 day rotation.	model or prototype
		This will include Art, Experiments, Geometry Lessons, Building Centers, Makerspace and STEM activities	that can be improved.
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		 Student Friendly Standard (Learning Target) Genius Hour: Day 1: I can generate and conceptualize artistic works of art. Day 2: I can generate and conceptualize artistic works of art. Day 3: I can generate and explain how the technology centers introduce me to careers that I can have in the future. Day 5: I can demonstrate and explain how engineering centers introduce me to careers that I can have in the future. May 5: I can demonstrate and explain how engineering centers introduce me to careers that I can have in the future. May 5: I can demonstrate and explain how engineering centers introduce me to careers that I can have in the future. May 5: I can demonstrate and explain how engineering centers introduce me to careers that I can have in the future. May 6: Laws of Motion, gravity, high and low pressure, absorb Modifications: ALL CLASSES HAVE INCLUSION OF ALL STUDENTS IN THE BUILDING: Please see modification / accommodation sheets (located with teacher) Instructional Method: Guided Discussion, Providing Descriptive Feedback, Reading, Direct Instruction, Audio/ Visual/ Technology, Workshop Model, Small groups, Demo Hands on, Partner / Pairs Formative / Summative Assessment: Flash Back _ Exit Slip, Bell Ringer, Oral Questions, Quiz, Open Response, Constructed Response, On Demand, Multiple Choice, Presentation, Conferring, Live Scoring, Self-Evaluation ./ Student Self-Assessment. 	
11:10-12:00	3rd	 Lesson / Activities STEM (See Special Area Schedule for Rotation/Class): Once a month for a 5 day notation. Students will learn STEM Standards, Problem Solving Skills, Robotics, Coding and Engineering Skills Day 1: Balancing Nails: Students will learn about the center of gravity. Students will try to figure out how to balance 12 nails on 1. Students will create a blueprint and design a way to complete the challenge. Teacher will demonstrate examples of the center of gravity and discuss how gravity affects objects returning to earth. Day 2: Newton's law of motion and gravity. Students will try to drop a weighted egg into a glass by using Newton's law of motion. Students will place the egg on top of a cardboard paper roll and then onto an aluminum pie pan. The students will knock the pie pan out and therefore the egg should drop into the glass of water. Day 3: Spinning Trays of Awesomeness. Students will place a cup of water onto a frisbee. The frisbee is attached to strings. Students will need to use Newton's first law of motion to be able to keep the water in the cup while spinning in a circle around their heads. Objects in motion ten to remain in motion unless acted upon by an external force. Day 4: Diaper Genie Air Balloon. Students will try to inflate a diaper genie liner the length of them with only one breath. Students will learn that if they hold the bag away from their face and blow the bag will inflate quickly because of low atmospheric pressure. The lower the pressure the faster the air moves and the higher the pressure the slower the air moves. Day 5: Baby diaper experiment. There are tiny crystals in a diaper that makes the diaper absorbent. The tiny crystals are super absorbent polymers. Students will remove the polymers from the diaper and try to absorb the water. The polymers can soak up as much as 800 times their weight in water. 	3-5-ETS1-1 Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost. 3-5-ETS1-2 Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem. 3-5-ETS1-3

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Instructional Method: Guided Discussion, Providing Descriptive Feedback, Reading, Direct Instruction, Audio/ Visual/ Technology, Workshop Model, Small groups, Demo Hands on, Partner / Pairs	

		<i>Formative / Summative Assessment:</i> Flash Back, Exit Slip, Bell Ringer, Oral Questions, Quiz, Open Response, Constructed Response, On Demand, Multiple Choice, Presentation, Conferring, Live Scoring, Self-Evaluation ./ Student Self-Assessment.	
12:35 - 1:25	2nd	 Student Self-Assessment. Lesson / Activities STEM (See Special Area Schedule for Rotation/Class): Once a month for a 5 day notation. Students will learn STEM Standards, Problem Solving Skills, Robotics, Coding and Engineering Skills Day 1: Balancing Nails: Students will learn about the center of gravity. Students will try to figure out how to balance 12 nails on 1. Students will create a blueprint and design a way to complete the challenge. Teacher will demonstrate examples of the center of gravity and discuss how gravity affects objects returning to earth. Day 2: Newton's law of motion and gravity. Students will try dor op a weighted egg into a glass by using Newton's law of motion. Students will place the egg on top of a cardboard paper roll and then onto an aluminum pie pan. The students will knock the pie pan out and therefore the egg should drop into the glass of water. Day 3: Students will need to use Newton's first law of motion to be able to keep the water in the cup while spinning in a circle around their heads. Objects in motion ter to remain in motion unless acted upon by an external force. Day 4: Diaper Genie Air Balloon. Students will try to inflate a diaper genie liner the length of them with only one breath. Students will learn that if they hold the bag away from their face and blow the bag will inflate quickly because of low atmospheric pressure. The lower the pressure the faster the air moves and the higher the pressure the slower the air moves. Day 5: Baby diaper experiment. There are tiny crystals in a diaper from the diaper and try to absorb the water. The polymers can soak up as much as 800 times their weight in water. Indoor activity for inclement weather and can't be outside: Students will continue to work on the Minecraft world. Students will begin to think about what types of things that they would need for survival and things that they would need for survival and things	K-2 ETS1-1 Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost. K-2-ETS1-2 Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem. K-2-ETS1-3 Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.

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Key Vocabulary: Newton's Laws of Motion, gravity, high and low pressure, absorb	

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		Instructional Method: Guided Discussion Providing Descriptive Feedback Reading Direct Instruction Audio/	
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	Formative / Summative Assessment: Flash Back, Exit Slip, Bell Ringer, Oral Questions, Quiz, Open Response,
	Constructed Response, On Demand, Multiple Choice, Presentation, Conferring, Live Scoring, Self-Evaluation ./
	Student Self-Assessment.
Please rememb	er schedules and plans are subject to change dependent upon assemblies, drills, teacher absences, student needs and other occasional circumstances.