STEAM Lab Lesson Plans

Week of September 10-14

8:40-9:10 Morning Duties

9:10-10:10- RtI

11:50-12:20- Lunch

3:40-4:00 Afternoon Duties

Grade Level	Objectives/Learning Targets	Learning Activities and Instructional Strategies	Standards Assessed
2nd (10:10-11:00)	I will be able to identify and explain each letter in STEAM.	**Vocabulary:** Science, Technology, Engineering, Art, Math **Discussion:** What is STEAM? Google Slides presentation. Why do we have a STEAM lab at Roby? How would you like to utilize the lab? **S:** Science (What is science? Why is it important? How do we use science everyday?) **T:** Technology (What is technology? Why is it important? How do we use technology everyday?) **E:** Engineering (What is engineering? Why is it important?)	

		A: Art (What is art? Why is it important? How do we use art everyday?) **M:** (What is math? Why is it important? How do we use math everyday?) Why is it important to have a growth mindset in the STEAM lab? Students will use their 'What is STEAM' book to come up with a plan of what they want to build using wooden or mega blocks. Once they have come up with a plan, they will build their first STEAM lab creation and draw a picture of the finished product. Students will take these books home to teach a family member about the STEAM lab. **Procedures and Expectations:** Use ROAR matrix to discuss how to follow the school wide expectations in the STEAM lab. Students will be given scenarios and will role play in small groups to learn the procedures and expectations in the lab.	
3rd (11:00-11:50)	I will be able to identify and explain each letter in STEAM. I can use ROAR in the STEAM lab.	**Vocabulary:** Science, Technology, Engineering, Art, Math **Discussion:** What is STEAM Google Slides presentation? Why do we have a STEAM lab at Roby? How would you like to utilize the lab? Caine's Arcade video - Discuss whole	

		group how Caine made his idea come to life. How did Caine have a growth mindset? **S:** Science (What is science? Why is it important? How do we use science everyday?) **T:** Technology (What is technology? Why is it important? How do we use technology everyday?) **E:** Engineering (What is engineering? Why is it important?) **A:** Art (What is art? Why is it important? How do we use art everyday?) **M:** (What is math? Why is it important? How do we use math everyday?) Why is it important to have a growth mindset in the STEAM lab? **Procedures and Expectations:** Use ROAR matrix to discuss how to follow the school wide expectations in the STEAM lab. Students will be given scenarios and will role play in small groups to learn the procedures and expectations in the lab. STEM Challenge: Students will collaborate in small groups using given materials (popsicles sticks, clothespins, and binder clips) to create a structure that will support a heavy rock.	

4th (12:20-1:10)	I will be able to identify and explain each letter in STEAM. I can use ROAR in the STEAM lab.	**Vocabulary:** Science, Technology, Engineering, Art, Math **Discussion:** What is STEAM Google Slides presentation? Why do we have a STEAM lab at Roby? How would you like to utilize the lab? Caine's Arcade video - Discuss whole group how Caine made his idea come to life. How did Caine have a growth mindset? **S:** Science (What is science? Why is it important? How do we use science everyday?) **T:** Technology (What is technology? Why is it important? How do we use technology everyday?) **E:** Engineering (What is engineering? Why is it important?) **A:** Art (What is art? Why is it important? How do we use art everyday?) **M:** (What is math? Why is it important? How do we use math everyday?) Why is it important to have a growth mindset in the STEAM lab? **Procedures and Expectations:** Use ROAR matrix to discuss how to follow the school wide expectations in the STEAM lab. Students will be given scenarios and will role play in small groups to learn the procedures	

		and expectations in the lab. STEM Challenge: Students will collaborate in small groups using given materials (popsicles sticks, clothespins, and binder clips) to create a structure that will support a heavy rock.	
K (1:10-2:00)	I will be able to identify and explain each letter in STEAM. I can use ROAR in the STEAM lab.	**Vocabulary:** Science, Technology, Engineering, Art, Math **Discussion:** What is STEAM Google Slides presentation? Why do we have a STEAM lab at Roby? How would you like to utilize the lab? **S:** Science (What is science? Why is it important? How do we use science everyday?) **T:** Technology (What is technology? Why is it important? How do we use technology everyday?) **E:** Engineering (What is engineering? Why is it important?) **A:** Art (What is art? Why is it important? How do we use art everyday?) **M:** (What is math? Why is it important? How do we use math everyday?) Why is it important to have a growth mindset in the STEAM lab? Students will use their 'What is STEAM' book	

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1st (2:00-2:50)	I will be able to identify and explain each letter in STEAM. I can use ROAR in the STEAM lab.	**Vocabulary:** Science, Technology, Engineering, Art, Math **Discussion:** What is STEAM Google Slides presentation? Why do we have a STEAM lab at Roby? How would you like to utilize the lab? What is a growth mindset? Why is it important to have a growth mindset in the STEAM lab? Students will use their 'What is STEAM' book to come up with a plan of what they want to build using wooden or mega blocks. Once	

		they have come up with a plan, they will build their first STEAM lab creation and draw a picture of the finished product. Students will take these books home to teach a family member about the STEAM lab. **Procedures and Expectations:** Use ROAR matrix to discuss how to follow the school wide expectations in the STEAM lab. Students will be given scenarios and will role play in small groups to learn the procedures and expectations in the lab.	
5th (2:50-3:40)	I will be able to identify and explain each letter in STEAM. I can use ROAR in the STEAM lab.	**Vocabulary:** Science, Technology, Engineering, Art, Math **Discussion:** What is STEAM Google Slides presentation? Why do we have a STEAM lab at Roby? How would you like to utilize the lab? Caine's Arcade video - Discuss whole group how Caine made his idea come to life. How did Caine have a growth mindset? **S:** Science (What is science? Why is it important? How do we use science everyday?) **T:** Technology (What is technology? Why is it important? How do we use technology everyday?) **E:** Engineering (What is engineering? Why is it important?)	

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