STEAM Lab Lesson Plans

Week of October 9-12

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 can create a primary and secondary color wheel using various materials. I can define and solve a simple design problem.	**Vocabulary:** primary colors, secondary colors, color wheel, warm colors, cool colors **Discussion:** What are the three primary colors? Why are these three colors considered to be the primary colors? What color does red and yellow make? What color does red and blue make? What color does blue and yellow make? Primary colors- red, yellow, blue Secondary colors- orange, purple, green Students will use paint to create a turtle color wheel. They will use tempera paint to create secondary colors and paint a color wheel of	VA:Cr3.1.2- Discuss and reflect with peers about choices made in creating artwork. K-2-ETS1-1. Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object

		six colors that will be turned into a turtle. *Some classes have already finished their color wheel. If students have finished, they will be working on using the Engineering Design Process by using materials in the makerspace to develop, create, and improve. Students will also be in small group stations exploring magnets, items from nature, coding, etc.	or tool.
3rd (11:00-11:50)	I can create a primary and secondary color wheel using various materials. I can define and solve a simple design problem.	**Vocabulary:** primary colors, secondary colors, color wheel, warm colors, cool colors **Discussion:** What are the three primary colors? Why are these three colors considered to be the primary colors? What color does red and yellow make? What color does red and blue make? What color does blue and yellow make? Primary colors- red, yellow, blue Secondary colors- orange, purple, green Students will use paint to create a turtle color wheel. They will use tempera paint to create secondary colors and paint a color wheel of six colors that will be turned into a turtle. *Some classes have already finished their color wheel. If students have finished, they will be working on using the Engineering	VA:Cr3.1.3- Elaborate visual information by adding details in an artwork to enhance emerging meaning. 3-5-ETS1-1. Define a simple design problem Asking Questions and Defining Problems Asking questions and defining problems in 3–5 builds on grades K–2 experiences and progresses to specifying qualitative relationships. Define a simple design problem that can be

		Design Process by using materials in the makerspace to develop, create, and improve. Students will also be in small group stations exploring magnets, items from nature, coding, etc.	solved through the development of an object, tool, process, or system and includes several criteria for success and constraints on materials, time, or cost. reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.
4th (12:20-1:10)	I can create a primary and secondary mandala color wheel using various materials. I can define and solve a simple design problem.	**Vocabulary:** mandala, primary colors, secondary colors, tint, shade **Discussion:** What are the three primary colors? Why are these three colors considered to be the primary colors? What color does red and yellow make? What color does red and blue make? What color does blue and yellow make? Primary colors- red, yellow, blue Secondary colors- orange, purple, green Students will use tempera paint to create a mandala color wheel. The color wheel will have six sections for each primary and secondary color. Students will experiment with tints and shades by adding white and	VA:Cr2.1.4- Explore and invent art-making techniques and approaches. 3-5-ETS1-1. Define a simple design problem Asking Questions and Defining Problems Asking questions and defining problems in 3–5 builds on grades K–2 experiences and progresses to specifying qualitative relationships.

		black paint to each color. When students have three shades of all colors in each section, they will cut the mandala out and paste it onto black paper for display. *Some classes have already finished their color wheel. If students have finished, they will be working on using the Engineering Design Process by using materials in the makerspace to develop, create, and improve. Students will also be in small group stations exploring magnets, items from nature, coding, etc.	Define a simple design problem that can be solved through the development of an object, tool, process, or system and includes several criteria for success and constraints on materials, time, or cost. reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.
K (1:10-2:00)	I can create a primary and secondary color wheel using various materials. I can define and solve a simple design problem.	**Vocabulary:** primary colors, secondary colors, color wheel, warm colors, cool colors Day One (25 minutes): **Discussion:** What are the three primary colors? Why are these three colors considered to be the primary colors? What color does red and yellow make? What color does red and blue make? What color does blue and yellow make? Primary colors- red, yellow, blue Secondary colors- orange, purple, green	VA:Cr3.1.K- Explain the process of making art while creating. K-2-ETS1-1. Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.

		Students will color a color wheel and distinguish the difference between primary and secondary colors. Day Two (25 minutes): Students will use tempera paint to color six fish in the shape of a color wheel, while discussing the primary colors that have to be mixed to make each secondary color. *Some classes have already finished their color wheel. If students have finished, they will be working on using the Engineering Design Process by using materials in the makerspace to develop, create, and improve. Students will also be in small group stations exploring magnets, items from nature, coding, etc.	
1st (2:00-2:50)	I can create a primary and secondary color wheel using various materials. I can define and solve a simple design problem.	**Vocabulary:** primary colors, secondary colors, color wheel, warm colors, cool colors Day One (25 minutes): **Discussion:** What are the three primary colors? Why are these three colors considered to be the primary colors? What color does red and yellow make? What color does red and blue make? What color does blue and yellow make?	VA:Cr3.1.1- Use art vocabulary to describe choices while creating art. K-2-ETS1-1. Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that

		Primary colors- red, yellow, blue Secondary colors- orange, purple, green Students will color a color wheel and distinguish the difference between primary and secondary colors. Day Two (25 minutes): Students will use tempera paint to color six fish in the shape of a color wheel, while discussing the primary colors that have to be mixed to make each secondary color. *Some classes have already finished their color wheel. If students have finished, they will be working on using the Engineering Design Process by using materials in the makerspace to develop, create, and improve. Students will also be in small group stations exploring magnets, items from nature, coding, etc.	can be solved through the development of a new or improved object or tool.
5th (2:50-3:40)	I can create a primary and secondary mandala color wheel using various materials. I can define and solve a simple	**Vocabulary:** mandala, primary colors, secondary colors, tint, shade **Discussion:** What are the three primary colors? Why are these three colors considered to be the primary colors? What color does red and yellow make? What color does red and blue make? What color does blue and yellow	VA:Cr2.1.5- Experiment and develop skills in multiple artmaking techniques and approaches through Practice. 3-5-ETS1-1. Define a

	design problem.	make? Primary colors- red, yellow, blue Secondary colors- orange, purple, green Students will use tempera paint to create a mandala color wheel. The color wheel will have six sections for each primary and secondary color. Students will experiment with tints and shades by adding white and black paint to each color. When students have three shades of all colors in each section, they will cut the mandala out and paste it onto black paper for display. *Some classes have already finished their color wheel. If students have finished, they will be working on using the Engineering Design Process by using materials in the makerspace to develop, create, and improve. Students will also be in small group stations exploring magnets, items from nature, coding, etc.	simple design problem Asking Questions and Defining Problems Asking questions and defining problems in 3–5 builds on grades K–2 experiences and progresses to specifying qualitative relationships. Define a simple design problem that can be solved through the development of an object, tool, process, or system and includes several criteria for success and constraints on materials, time, or cost. reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.