Grade Level 8	**Teacher/Room:** Christina Scales/ 149 **Week of:** April 25, 2016

Unit Vocabulary
Cleavage stage, yolk, blastoderm, candling, embryo, albumen, allantois, amnion, humidity. Egg tooth

Monday 5-2-16 (Milestone Testing in morning)

CC Standard

S8CS1. Students will explore the importance of curiosity, honesty, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works.

a. Understand the importance of—and keep—honest, clear, and accurate records in science.

b. Understand that hypotheses can be valuable even if they turn out not to be completely accurate.

S8CS3. Students will have the computation and estimation skills necessary for analyzing data and following scientific explanations.

a. Analyze scientific data by using, interpreting, and comparing numbers in several equivalent forms, such as integers, fractions, decimals, and percents.

b. Find the mean, median, and mode and use them to analyze a set of scientific data.

c. Apply the metric system to scientific investigations that include metric to metric conversions (i.e., centimeters to meters).

d. Decide what degree of precision is adequate, and round off appropriately.

e. Address the relationship between accuracy and precision.

f. Use ratios and proportions, including constant rates, in appropriate problems.

	Science	STEM
Instructional Strategies/ Resources Used:	Lab exploration/technology	Lab exploration/technology
Learning Target	I can use a balance scale.	I can use a balance scale.
Activating:	Duck Development http://www.pbslearningmedia.org/resource/tdc02.sci.life.stru.duckdev/duck-development/	Duck Development http://www.pbslearningmedia.org/resource/tdc02.sci.life.stru.duckdev/duck-development/
Class Activity:	1. Complete cover for Duck Hatching Folder 2. Weigh adopted egg and record results. 3. Draw picture of candled egg. 4. Record age of egg 5. Document findings on duck blog.	1. Complete cover for Duck Hatching Folder 2. Weigh adopted egg and record results. ***3.*** Draw picture of candled egg ***4.*** Record age of egg
Assessment	Accuracy of weight on balance scale	Accuracy of weight on balance scale

Homework:		
Differentiation:	Peer groups	

Tuesday 5/3/16

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f. Use ratios and proportions, including constant rates, in appropriate problems.

S8P1. Students will examine the scientific view of the nature of matter.

c. Describe the movement of particles in solids, liquids, gases, and plasmas states.

d. Distinguish between physical and chemical properties of matter as physical (i.e., density, melting point, boiling point) or chemical (i.e., reactivity, combustibility).

e. Distinguish between changes in matter as physical (i.e., physical change) or chemical (development of a gas, formation of precipitate, and change in color).

	Science 1st, 2nd, 3rd Block	Stem 4th Block
Instructional Strategies/ Resources Used:	Make a model	Make a model
Learning Target	I can explain the development of the duck embryo. I can explain the physical and chemical changes that occur in the development of the embryo and the cooking of an egg.	I can explain the development of the duck embryo.
Different types of energy	Duck Development http://www.pbslearningmedia.org/resource/tdc02.sci.life.stru.duckdev/duck-development/ https://www.youtube.com/watch?v=	Duck Development http://www.pbslearningmedia.org/resource/tdc02.sci.life.stru.duckdev/duck-development/ https://www.youtube.com/watch?v=

	4eJLNisaOzE	4eJLNisaOzE
Class Activity	1. Draw the developmental stages of duck embryo 2. Complete Frayer vocabulary	1. Draw the developmental stages of duck embryo 2. Complete Frayer vocabulary.
Homework:		
Differentiation:	Peer partners	

Wednesday 5/3/16

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a. Analyze scientific data by using, interpreting, and comparing numbers in several equivalent forms, such as integers, fractions, decimals, and percents.

b. Find the mean, median, and mode and use them to analyze a set of scientific data.

c. Apply the metric system to scientific investigations that include metric to metric conversions (i.e., centimeters to meters).

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f. Use ratios and proportions, including constant rates, in appropriate problems.

S8P2. Students will be familiar with the forms and transformations of energy.

a. Explain energy transformation in terms of the Law of Conservation of Energy.

b. Explain the relationship between potential and kinetic energy.

c. Compare and contrast the different forms of energy (heat, light, electricity, mechanical motion, sound) and their characteristics.

d. Describe how heat can be transferred through matter by the collisions of atoms (conduction) or through space (radiation). In a liquid or gas, currents will facilitate the transfer of heat (convection).

	Science 1st , 2nd, 3rd, Block	Stem 4th Block
Instructional Strategies/	Student Technology/data collection	Student Technology/data collection

Resources Used:		
Learning Target	I can make scientific observations and analyze scientific data to make predictions.	I can make scientific observations and analyze scientific data to make predictions
Activating:	Breeds of ducks http://www.bing.com/videos/search?q=breeds+of+ducks+video&adlt=strict&view=detail&mid=3B98B9C05EDE657769CB3B98B9C05EDE657769CB&FORM=VRDGAR 3 D Foot http://www.bing.com/videos/search?q=Duck+Feet&adlt=strict&view=detail&mid=16EA5D95C782A7A316A616EA5D95C782A7A316A6&FORM=VRDGAR	Breeds of ducks http://www.bing.com/videos/search?q=breeds+of+ducks+video&adlt=strict&view=detail&mid=3B98B9C05EDE657769CB3B98B9C05EDE657769CB&FORM=VRDGAR 3 D Foot http://www.bing.com/videos/search?q=Duck+Feet&adlt=strict&view=detail&mid=16EA5D95C782A7A316A616EA5D95C782A7A316A6&FORM=VRDGAR
Class Activity:	1. I Pads—students will take notes on each egg. They will then use Ipads to identify and make predictions of the breed of duck in each egg. Students will use size, weight, and color to help make determinations.	1. I Pads—students will take notes on each egg. They will then use Ipads to identify and make predictions of the breed of duck in each egg. Students will use size, weight, and color to help make determinations.
Assessment:	Data Collecting Report	Data Collecting Report
Homework:		
Differentiation:		

Thursday 5/5/16

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b. Understand that hypotheses can be valuable even if they turn out not to be completely accurate.

S8CS3. Students will have the computation and estimation skills necessary for analyzing data and

following scientific explanations.

a. Analyze scientific data by using, interpreting, and comparing numbers in several equivalent forms, such as integers, fractions, decimals, and percents.

b. Find the mean, median, and mode and use them to analyze a set of scientific data.

c. Apply the metric system to scientific investigations that include metric to metric conversions (i.e., centimeters to meters).

d. Decide what degree of precision is adequate, and round off appropriately.

e. Address the relationship between accuracy and precision.

f. Use ratios and proportions, including constant rates, in appropriate problems.

	Science 1st, 2nd, 3rd Block	Stem 4th Block
Instructional Strategies/ Resources Used:	Student technology	Student technology
Learning Target	I can describe the steps required to successfully hatch duck eggs. I can describe the care and materials needed to brood young ducks. I can determine the energy transformation of an incubator.	I can describe the steps required to successfully hatch duck eggs. I can describe the care and materials needed to brood young ducks. I can determine the energy transformation of an incubator.
Activating:		
Class Activity:	1. Students will complete Webquest to investigate the necessary steps to complete a successful hatch and how to brood young ducks. 2. Students will use balance scale to weigh and candle eggs and record data. 3. Post data and findings on duck blog.	1. Students will complete Webquest to investigate the necessary steps to complete a successful hatch and how to brood young ducks. 2. Students will use balance scale to weigh and candle eggs and record data. 3. Post data and findings on duck blog.
Assessment:	Web Quest Report	Web Quest Report
Homework:		
Differentiation:	Complete 3 out of 4 Webquests	Complete all webquests

Friday 5/5/16

S8CS1. Students will explore the importance of curiosity, honesty, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works.

a. Understand the importance of—and keep—honest, clear, and accurate records in science.

b. Understand that hypotheses can be valuable even if they turn out not to be completely

accurate.

S8CS3. Students will have the computation and estimation skills necessary for analyzing data and following scientific explanations.

a. Analyze scientific data by using, interpreting, and comparing numbers in several equivalent forms, such as integers, fractions, decimals, and percents.

b. Find the mean, median, and mode and use them to analyze a set of scientific data.

c. Apply the metric system to scientific investigations that include metric to metric conversions (i.e., centimeters to meters).

d. Decide what degree of precision is adequate, and round off appropriately.

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	Science 1st Block	Stem 4th Block
Instructional Strategies/ Resources Used:	exploration/art/group work/technology	Direct instruction/art/group work
Learning Target	I can collect data and display it.	I can collect data and display it.
Activating:	Duck Coop http://www.bing.com/videos/search?q=building+a+duck+coop&adlt=strict&view=detail&mid=834B930244D5CD45370A834B930244D5CD45370A&FORM=VRDGAR Duck Pond http://www.bing.com/videos/search?q=Building+a+Small+Duck+Pond&adlt=strict&view=detail&mid=51C9C89D76709909205F51C9C89D76709909205F&FORM=VRDGAR	Duck Coop http://www.bing.com/videos/search?q=building+a+duck+coop&adlt=strict&view=detail&mid=834B930244D5CD45370A834B930244D5CD45370A&FORM=VRDGAR Duck Pond http://www.bing.com/videos/search?q=Building+a+Small+Duck+Pond&adlt=strict&view=detail&mid=51C9C89D76709909205F51C9C89D76709909205F&FORM=VRDGAR
Class Activity:	1. Introduce duck pond/duck coop project 2. Students will watch videos to determine what materials are needed to construct a coop and pond. 3. Students will work in groups of 2 to design a coop and pond. Diagram must be drawn with dimensions (including area and perimenter).	1. Introduce duck pond/duck coop project 2. Students will watch videos to determine what materials are needed to construct a coop and pond. 3. Students will work in groups of 2 to design a coop and pond. Diagram must be drawnwith

	Project will continue next week.	dimensions (including area and perimenter). 1. Project will continue next week.
Assessment:	Diagram	Diagram
Homework:		
Differentiation:		