

CURRICULUM UNIT PROJECT

Note: This portion of the CUP will be completed collaboratively in your project team. You will submit it only once, as a team, and you will all receive the same score for it.

Section 1: Project Topic and Curriculum Web

	Write in boxes below (boxes will expand as you write)
1. Topic	Eggs found in Iowa; 4-5 Classroom
(a) Topic of project (from either science or social studies)	The topic of our project is Eggs that are found in Iowa.
(b) Children's Questions These should reflect what preschoolers would be likely to be curious about with regard to the topic.	<ol style="list-style-type: none"> 1. How does an egg hatch? 2. What animals, reptiles, or insects lay eggs? 3. How do you eat eggs? Who eats eggs? 4. What are the characteristics of an egg? Are all types of eggs the same or different? How? 5. Where are eggs kept? 6. How are eggs kept safe? 7. What do eggs feel like? 8. Why is there a shell on an egg? 9. Are egg shells strong? 10. What are eggs made of? 11. Where do eggs come out of? 12. How does an animal know the eggs are theirs? 13. What are shells made out of? How is the shell made?
2. Research	
(a) Content that you have learned from your investigation of the topic that addresses the children's questions above. You must have at least five sources of information cited here and included in your references list below.	<ol style="list-style-type: none"> 1. The characteristics of eggs <ul style="list-style-type: none"> ● Different types of eggs and what animals lay eggs. <p>The Different Types Of Eggs. (2012, February 1). Retrieved March 8, 2015, from http://www.thenibble.com/reviews/main/cheese/eggs/egg-glossary.asp</p> <ul style="list-style-type: none"> ● This book explores different animals that lay eggs along with different sizes of eggs. <p>Jenkins, S., & Page, R. (2015). <i>Egg: Nature's perfect package</i>. HMH Books for Young Readers.</p> <ul style="list-style-type: none"> ● This website goes through step by step how to hatch eggs in an incubator. This will be very helpful when setting up

the incubator during the first week. The children may have a lot of questions that this article can address about incubating eggs.

Beginner's Guide to Hatching Eggs. (n.d.). Retrieved March 8, 2015, from

<http://incubatorwarehouse.com/incubating-eggs/getting-started-egg-incubating>

- This website can explain the difference between duck eggs and chicken eggs. Children may think that these types of eggs are very similar, but they are not.

Do Duck Eggs & Chicken Eggs Look Different? (n.d.). Retrieved March 8, 2015, from

<http://animals.pawnation.com/duck-eggs-chicken-eggs-look-different-11529.html>

- This website talks about the different types of eggs in biology terms. This may be very important for teachers to read about.

Eggs Present in the Ovum: Microlecithal, Mesolecithal and Macrolecithal Eggs. (n.d.). Retrieved March 8, 2015, from

<http://www.biologydiscussion.com/egg/eggs-present-in-the-ovum-microlecithal-mesolecithal-and-macrolecithal-eggs/704>

2. Where eggs comes from & 3. Growth and development of an egg

- This website talks about what type of animals lay eggs in a simple language that is easy enough for kids to understand, but also has a lot of information useful for a teacher.

Reproduction (Baby animals!). (n.d.). Retrieved March 8, 2015, from

http://www.sheppardsoftware.com/content/animals/kidscorner/classification/kc_classification_babies.htm

- This is a PDF about what kind of amphibians and reptiles that are present in Iowa; it includes information on their egg laying habits.

Geske, J. (1998, September 1). Iowa Reptiles and Amphibians. Retrieved March 8, 2015, from

file:///Users/margochristianson/Downloads/IAN0604.pdf

- This website is about turtles; it includes information about how they nest the eggs they lay.

Information About Sea Turtles: General Behavior. (n.d.). Retrieved March 8, 2015, from

<http://www.conserveturtles.org/seaturtleinformation.php?page=behavior>

- This website is about identifying bird nests and shows many different types of bird nests.

Egg And Nest Identification. (n.d.). Retrieved March 8, 2015, from

<http://www.thebirdersreport.com/egg-and-nest-identification>

- This website lists 10 different and unique animals that lay eggs and it also give a paragraph explanation of where it is laid at and what the egg looks like.

Mulcahy, K. (2012, March 1). Top 10 Fascinating Eggs.

Retrieved March 8, 2015, from Egg And Nest Identification.

(n.d.). Retrieved March 8, 2015, from

<http://www.thebirdersreport.com/egg-and-nest-identification>

- This website addresses the growth and development of penguins. It explains the various sizes of eggs, how they need to be cared for, who takes care of them, and how the chicks develop after they hatch.

Sea World Parks and Entertainment. (N.d.) Penguins - hatching and care of young. Retrieved March 8, 2015, from

<http://seaworld.org/en/animal-info/animal-infobooks/penguin/hatching-and-care-of-young/>.

- This website takes readers to a lesson plan focused on fish and how they develop. It explains how eggs are laid, where they are laid, the various stages of development, and how they are cared for. This lesson is designed for older grades but the facts can be adapted for younger students.

Regents of the University of Michigan. (N.D.) FLOW - Unit 3: Fish.

Retrieved March 8, 2015 from

<http://www.miseagrant.umich.edu/flow/pdf/U3/FLOW-U3-L3-MI-CHU-08-403.pdf>.

- The following links takes you to an images that shows the various stages of penguin's development.

Scholastic. (N.D.) A Penguin Grows Up. Retrieved March 8, 2015 from

<http://teacher.scholastic.com/lessonrepro/reproducibles/penguin-grow.htm>.

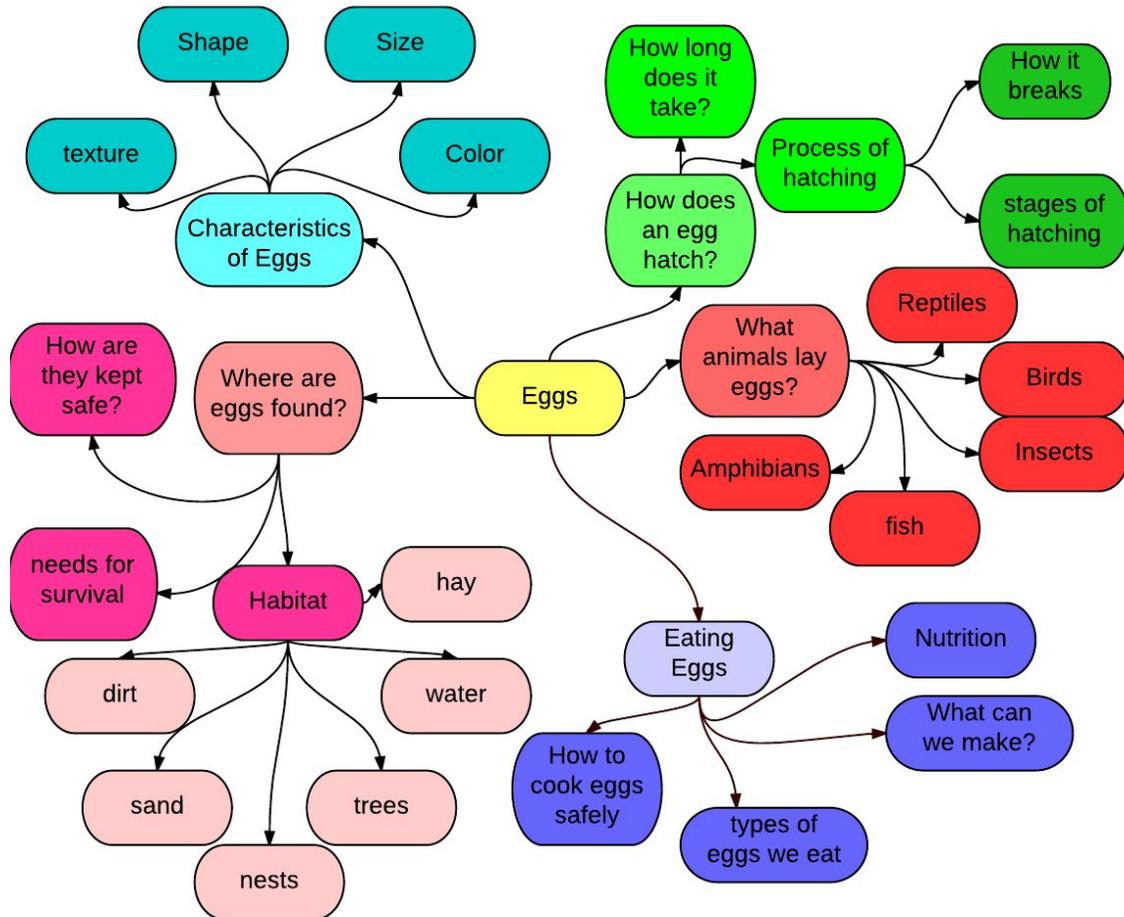
- This website offers readers a lot of information on various types of birds and how their development differs. It

	<p>focuses on the chick’s growth as well as the growth of the egg and the care and keeping of the egg.</p> <p>Nelson, R. (N.C.) The Wild Classroom: Growth and Development in Birds. Retrieved on March 8, 2015 from http://www.thewildclassroom.com/biodiversity/birds/aviantopics/growthanddevelopment.html.</p> <ul style="list-style-type: none"> • This website is about the growth and development of insects. It talks about a few specific insects but mostly focuses on explaining them as a whole group. It also explains metamorphosis and it’s part in growth and development. <p>No author. (N.D.) How Insects Grow and Change Form. Retrieved March 8, 2015 from http://www.uky.edu/Ag/Entomology/ythfacts/4h/unit2/hoigr&cf.htm.</p> <p>4. The uses of eggs</p> <ul style="list-style-type: none"> • This website discusses what kinds of eggs are edible and which are not including which categories of animals have edible eggs as well. <p>http://www.eattheweeds.com/eggs-for-survival-and-food-2/</p> <ul style="list-style-type: none"> • This website has great ideas on how to talk about the structure of eggs its has variety of activities that test durability and structure. <p>http://www.bbc.co.uk/bang/handson/rubber_egg.shtml</p>
<p>(b) Additional information that you think preschoolers would be interested in and capable of learning.</p>	<ul style="list-style-type: none"> • Poisonous eggs • Strength of eggs • colors and patterns of eggs • Do all eggs have shells?
<p>3. Big Ideas These are broad statements that capture the concepts that children can learn about the topic and that are appropriate for all children.</p>	<ol style="list-style-type: none"> 1. The characteristics of eggs 2. Where eggs comes from 3. Growth and development of an egg 4. The uses of eggs

<p>4. Direct experiences Opportunities for children to engage in genuine investigation and have direct experiences.</p>	<ol style="list-style-type: none"> 1. Introduction of the incubator & Sensory activity with various types of eggs 2. Visit nature reserve, do a nature hunt in a nearby location, & Visit from DNR 3. Class trip to a poultry farm 4. Cooking with eggs. Investigating the different parts: Shell, yolk white.
<p>5. Vocabulary List of vocabulary words related to the topic (minimum 20)</p>	<ol style="list-style-type: none"> 1. Hatch 2. Membrane 3. Egg 4. Yolk 5. Shell 6. Hatchery 7. Nest 8. Incubator 9. Development 10. Poultry 11. Habitat 12. Reptile 13. Insect 14. Amphibian 15. Environment 16. Fish 17. Department of Natural Resources (DNR) 18. Preservation 19. Beak 20. Embryo 21. Metamorphosis
<p>6. Mind map Map or web of anticipated directions that the project might take and/or subtopics</p>	

that might be investigated;
 must be created using a
 computer; must consist of
 three levels beyond the topic
 (insert below, outside box.)

Insert mind map here



**7. References list
 (in APA format)**

The Different Types Of Eggs. (2012, February 1). Retrieved March 8, 2015, from <http://www.thenibble.com/reviews/main/cheese/eggs/egg-glossary.asp>

Jenkins, S., & Page, R. (2015). *Egg: Nature's perfect package*. HMH Books for Young Readers.

Beginner's Guide to Hatching Eggs. (n.d.). Retrieved March 8, 2015, from <http://incubatorwarehouse.com/incubating-eggs/getting-started-egg-incubating>

Do Duck Eggs & Chicken Eggs Look Different? (n.d.). Retrieved March 8, 2015, from <http://animals.pawnation.com/duck-eggs-chicken-eggs-look-different-11529.html>

Eggs Present in the Ovum: Microlecithal, Mesolecithal and Macrolecithal Eggs. (n.d.). Retrieved March 8, 2015, from <http://www.biologydiscussion.com/egg/eggs-present-in-the-ovum-microlecithal-mesolecithal-and-macrolecithal-eggs/704>

Reproduction (Baby animals!). (n.d.). Retrieved March 8, 2015, from http://www.sheppardsoftware.com/content/animals/kidscorner/classification/kc_classification_babies.htm

Information About Sea Turtles: General Behavior. (n.d.). Retrieved March 8, 2015, from <http://www.conserveturtles.org/seaturtleinformation.php?page=behavior>

Egg And Nest Identification. (n.d.). Retrieved March 8, 2015, from <http://www.thebirdersreport.com/egg-and-nest-identification>

Mulcahy, K. (2012, March 1). Top 10 Fascinating Eggs. Retrieved March 8, 2015, from Egg And Nest Identification. (n.d.). Retrieved March 8, 2015, from <http://www.thebirdersreport.com/egg-and-nest-identification>

Geske, J. (1998, September 1). Iowa Reptiles and Amphibians. Retrieved March 8, 2015, from file:///Users/margochristianson/Downloads/IAN0604.pdf

Eggs. (n.d.). Retrieved March 8, 2015, from <http://www.eattheweeds.com/eggs-for-survival-and-food-2>

Bonnin, Liz. "Rubber Egg." BBC News. BBC, n.d. Web. 08 Mar. 2015.

http://www.bbc.co.uk/bang/handson/rubber_egg.shtml

No author. (N.D.) How Insects Grow and Change Form.

Retrieved March 8, 2015 from

<http://www.uky.edu/Ag/Entomology/ythfacts/4h/unit2/hoigr&cf.htm>.

Nelson, R. (N.C.) The Wild Classroom: Growth and

Development in Birds. Retrieved on March 8, 2015 from

<http://www.thewildclassroom.com/biodiversity/birds/aviantopics/growthanddevelopment.html>.

Scholastic. (N.D.) A Penguin Grows Up. Retrieved March 8, 2015

from

<http://teacher.scholastic.com/lessonrepro/reproducibles/penguinrow.htm>.

Regents of the University of Michigan. (N.D.) FLOW - Unit 3:

Fish. Retrieved March 8, 2015 from

<http://www.miseagrant.umich.edu/flow/pdf/U3/FLOW-U3-L3-MICHU-08-403.pdf>.

Sea World Parks and Entertainment. (N.d.) Penguins - hatching

and care of young. Retrieved March 8, 2015, from

<http://seaworld.org/en/animal-info/animal-infobooks/penguin/hatching-and-care-of-young/>.