

Life Cycle of a Sea Turtle

Grade Level: First Grade

Science Concept: Life Cycle of sea turtles

Relationship to California Science Standards:

Investigation and Experimentation 4a – Draw pictures that portray some features of the thing being described.

Learning objective:

Students will demonstrate their understanding of the life cycle of a turtle through the completion of the life cycle poster including the five required stages.

Evaluation:

1. Formative – Listening to student responses from worksheet one (life cycle of turtle) and worksheet two (life cycle of desert tortoise).
2. Summative – Students will turn in their posters of the life cycle of a turtle which will include the five required stages.

Conceptual Background: Life cycles are a very important thing that students will learn in school. The idea for this lesson is for students to look closely at the life cycle of a female sea turtle. They will be focusing on five stages of the turtle's life: laying of eggs, hatching from the eggs, returning to the sea, growing stronger and bigger and then returning to shore to lay eggs. This lesson is a starting point for the students because they will learn about different life cycles in second grade leading up to learning about the life cycle of a human.

Lesson Implementation Plan: Engage students through showing the short four minute video "Life Cycle of a Sea Turtle" (Seaturtlefilms, 2009) from YouTube. Please note that many schools do not allow YouTube so in that case you would read the book *One Tiny Turtle* (Davies, 2001). After showing the video or reading the book, ask students "What do you think we might be learning about today?" Once students have had a chance to think, pair and share tell the students what they will be doing and how they will be doing it.

Engage- Show students the short video "Life Cycle of a Sea Turtle" or read the book *One Tiny Turtle*. Next you should ask the students "What do you think we might be learning about today?" "The question that you are going to investigate today is 'what is the life cycle of the sea turtle?'. After we learn about the life cycle of a turtle, in your groups you will have a chart of the life cycle of a desert tortoise. Your job is to see if the two life cycles are the same or if there are differences."

Explore- Hand students worksheet one. To complete worksheet one students will use the books provided to put the life cycle of a turtle in order. Students will cut out each piece, place it in the correct order and then glue the pieces onto another sheet of paper. Once

students have finished worksheet one, they will raise their hands and the teacher will give them worksheet two and the information on the life cycle of a desert tortoise. Students will then work together as a team to determine if the life cycle of a desert tortoise is the same as that of the turtle.

Explain- Once the each team of students is done they will raise their hands. When the teacher comes over they will explain the life cycle of the turtle and will share their results from worksheet two. Once the students have done both of those tasks the teacher will hand them worksheet three where they will sketch out the life cycle of a female turtle, making sure to include the five required stages.

Elaborate- Now that students know all about the life cycle of a turtle, the students will be drawing a poster of that very thing (on worksheet three the students sketched the life cycle, now they are going to draw it on poster paper). The poster needs to include five stages of the cycle: eggs in the nest, eggs hatching, heading to the ocean, getting older, laying eggs. The criteria for the poster will be posted on the board and the five stages will be on the board as well.

Evaluate-

1. Formative – Listening to student responses from worksheet one (life cycle of turtle) and worksheet two (life cycle of desert tortoise).
2. Summative – Students will turn in their posters of the life cycle of a turtle which will include the five required stages.

List of Materials:

- Books from the book list (one book for every pair of students)
- Video from YouTube – “Life Cycle of a Sea Turtle”
- Worksheet one (one for each student)
- Worksheet two (one for each student)
- Worksheet three (one for each student)
- Poster paper (one for each student)
- Markers and crayons
- Scissors
- Glue sticks
- Internet resources (see attached pages – modified from given internet resources) – one for each student

Book List

- Davies, Nicola. (2001). One Tiny Turtle. Cambridge, MA: Candlewick Press.
- Guiberson, Brenda. (1996). Into the Sea. New York, NY: Henry Holt and Company, LLC.
- Kalman, Bobbie. (2002). The Life Cycle of a Sea Turtle. New York, NY: Crabtree Publishing Company.

Internet Resources (Please make the decision based on the students in your class.)

- <http://www.tortoise-tracks.org/gopherus/lifecycle.html>
- <http://bioc.rice.edu/precollege/galbay/galbay99/teachers/turtlife/LifeCycle.html>

Video Reference

- <http://www.youtube.com/watch?v=FRwZl8vB6A0&noredirect=1>

Differentiation

Student A (Behavioral) – Student A will need to be in close proximity to the teacher at all times. This student does best when working by themselves. This student will do the entire lesson and all worksheets by themselves with the support of the teacher.

Student B (Cognitive) – Student B will need additional support from the teacher to complete this assignment. The additional support will come from the teacher through the teacher helping the student think through worksheet one making sure to put the different stages of the life cycle in order. Due to this student's ability they will not have to do worksheet two. They will complete all other work as the rest of the students in the class.

Student C (Cognitive) – Student C will gain additional support from a classmate to complete this assignment. The additional support will come from a classmate and they will do this assignment together in a partnership. The students will agree up the correct order of the life cycle (worksheet one), will complete worksheet two and three together. They will also complete the final assessment as a team and put both names on the poster.

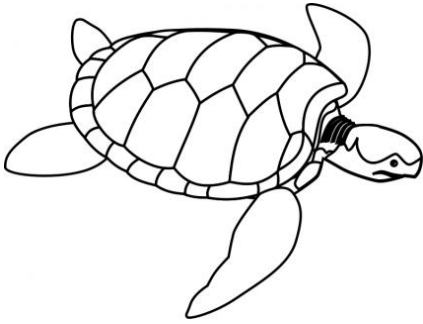
Student D (Affective) – Student D will have modifications made to the assignment so that they are fully capable of participating in this lesson. All parts of this lesson will be done at Student D's desk and she will have the option of having a partner (just as Student C) if that will make the completion of the lesson and assignments easier on Student D.

Student E (Language Demands) – For worksheet one Student E will have all of the stages in the life cycle in pictures. This student will not have to do the comparison between the sea turtle and the desert tortoise. Student F will complete worksheet two, three and the poster just like the rest of the students in the class.

Student F (Language Demands) – For worksheet one Student F will have all of the stages in the life cycle in pictures. Student F will complete the rest of his/her work just as the other students in the class.

Student G (Language Demands) – Student G will be given additional time to complete this assignment. Student G will be given access to the material before the lesson begins and have additional time after the lesson is due for the rest of the class. The teacher will make sure to allot a longer wait time for this student to process the task at hand. The directions will be written in simple step by step format with visuals cues and can be written in their home language.

Life Cycle– Worksheet 1

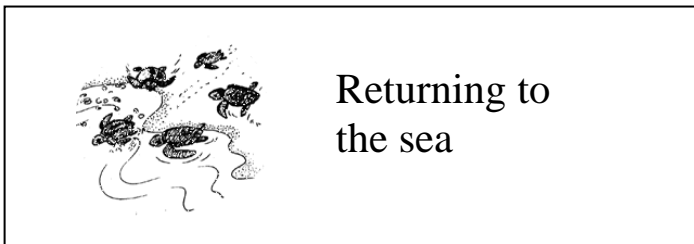
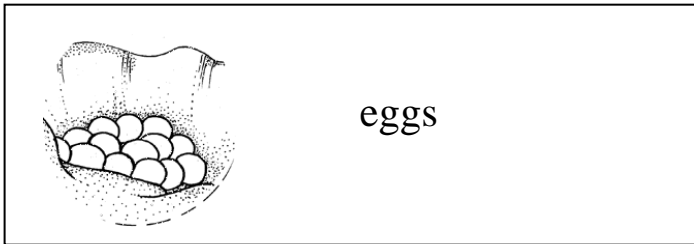
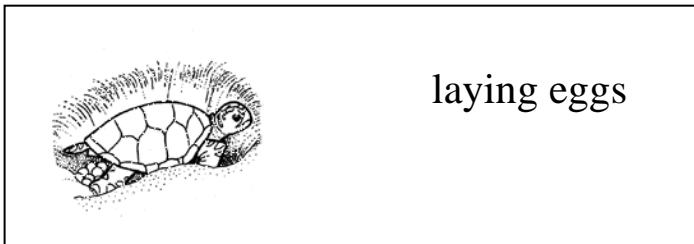
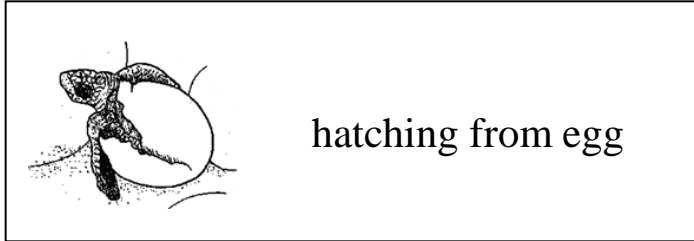


Name: _____

Date: _____

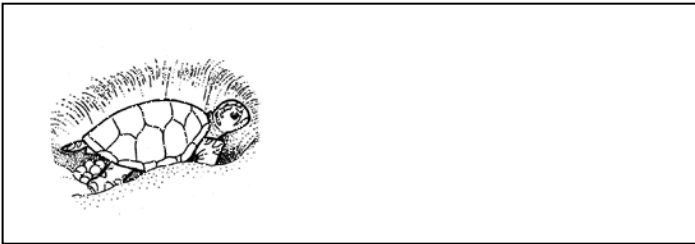
Glue the pictures of the life cycle of a turtle in order.

1. Cut out the boxes.
2. Put the life cycle of the turtle in order.
3. Glue on the page with your name.

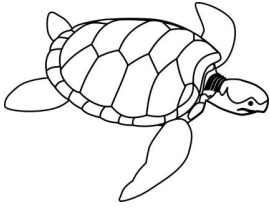


For Students
D and F

4. Cut out the boxes.
5. Put the life cycle of the turtle in order.
6. Glue on the page with your name.



Life Cycle – Worksheet 2 – Life Cycle of a Desert Tortoise



Name: _____

Date: _____

Please write one word from the box on each line. Please mark yes if the stage of the desert tortoise is the same as the sea turtle. If they are different please mark no.

	Yes	No
Stage 1: _____	<input type="checkbox"/>	<input type="checkbox"/>
Stage 2: _____	<input type="checkbox"/>	<input type="checkbox"/>
Stage 3: _____	<input type="checkbox"/>	<input type="checkbox"/>
Stage 4: _____	<input type="checkbox"/>	<input type="checkbox"/>
Stage 5: _____	<input type="checkbox"/>	<input type="checkbox"/>

Word Bank

- Climbing out of nest
- Laying eggs
- Laying eggs
- Hatching out of eggs
- Growing bigger