

Lesson Plan Template

Lesson Title	
Teacher's Name Cristy Detter	School Startown Elementary

Subject/Course Science	Grade Level 2 nd Grade	Approximate Time Needed
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Essential Question	What is the life cycle of an insect?
Description of Unit	Student's will discover that insects go through a life cycle whether complete or incomplete and identify various insects and the different stages of their life cycle.

North Carolina Goals and Objectives: (http://www.learnnc.org/scos/)	
What standards will be addressed?	
Goal 1 The learner will conduct investigations and build an understanding of animal life cycles.	
Objective 1.01 Describe the life cycle of animals including:	
Objective 1.03 Observe the different stages of an insect life cycle.	
Objective 1.04 Compare and contrast life cycles of other animals such as mealworms, ladybugs, crickets, guppies or frogs.	

Student Goals/Outcomes:
What do you want students to know and be able to do? What knowledge, skills, strategies, and attitudes do you expect students to gain? What important content and concepts will students learn?
<ul style="list-style-type: none"> ➤ Students will be able to identify an insect based on the parts of its life cycle and label the parts of the life cycle. ➤ Students will be able to use the GPS device correctly.

Learning Activities or Tasks:
What engaged and worthwhile learning activities and tasks will your students complete? How can the use of technology support student learning?
<ul style="list-style-type: none"> ➤ Watch the United Streaming Videos entitled "Globes and Us" ➤ Complete a Google Earth Activity as a class ➤ Complete a Hide & Seek Activity to familiarize students with GPS ➤ Students will use the GPS device to locate different stages of an insect's life cycle. ➤ Students will then return with their caches (insect life cycle stages) and create a life cycle chart, label each stage and identify the insect. ➤ Students will present their insect to the class.

Big6 or Super3 Skills:

Big6 - 1. Task Definition, 2. Information Seeking Strategies, 3. Location and Access, 4. Use of Information, 5. Synthesis, 6. Evaluation
Super3 – 1. Plan, 2. Do, 3. Review

- **Plan:** Students will receive a GPS device and review how it works (button names). Then students will locate the waypoints and collect their caches.
- **Do:** Collect the caches for their team and return to the classroom to prepare their life cycle chart.
- **Review:** Student teams will present their life cycle chart and identify their insect to the class.

Prerequisite Skills:

What skills must the students have to begin this unit?

- Students must be able to determine:
 - ✓ If an animal is an insect based on 3 body parts and 6 legs.
 - ✓ Insects have a complete or incomplete life cycle
 - ✓ Identify the various parts of an insects life cycle
 - ✓ Compare and contrast various insect life cycles
 - ✓ Vocabulary: insect, larva, egg, nymph, adult, metamorphosis, pupa, molting
- Students must have a basic understanding of latitude and longitude.
- Students must know how to use a GPS device by using waypoints and identifying button names.

Required Materials and Resources:

Hardware – GPS, Computer, projector, School Pad (COW)

Software – Google Earth,

Internet Web – United Streaming

Printed Materials – handout

Supplies – pencil, glue, markers to label, large piece of construction paper

Student Assessment:

How will you know your students have reached the lesson goal? What assessment tools will you use?
How will students assess themselves? (Observation, journal, essay, quiz, test, project, etc

Students will be assessed through teacher observation, and assessment of life cycle chart.

Accommodations for Differentiated Instruction:

Exceptional, ELL, AIG student

Students will be put into groups of four and each student will have job based on their ability when using the GPS device.

- GPS Navigator
- Cache Collector
- Waypoint Navigator/Recorder
- Time Manager (makes sure group is back in the classroom on time)

EC students will be paired up with another student for guidance.

Lesson Evaluation and Teacher Reflection:

Other Comments:

GPS Lesson Plan Components:

Google Earth Activity	Google Earth Answer Key	Time Line	Waypoint Worksheet/Cache Objects	Student Activity Sheet
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