

Life Cycle of Painted Lady Butterflies

Name: Heather Spriet

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Subject: Science

Intended Grade level(s): K-2

Description: Each child will be able to complete a graphic organizer which describes the four steps involved in the life cycle of a Painted Lady butterfly by using the computer program Kidpix, their prior knowledge, and the observations done in class with real-life caterpillars.

Curriculum Benchmarks: NETS1:1-1:2
NETS2:2
NETS3:1-3:2
NETS 5:2
Science (LO) A:1
Science (LO) A:2
Science (LEC) B:2

Bloom's: Knowledge, Comprehension, Application, Analysis

Materials:

Kidpix® Deluxe3 (The Learning Company School Division©2001)

20 computers that include these requirements:

System Requirements

Macintosh: System 8.1 - 9.1, OS X (Classic environment); PowerPC/G3/G4 233 MHz; 32MB RAM, 16 free; 145MB hard disk space (350 for full install); 4X CD-ROM; 800 x 600 video, Thousands of Colors; Microphone required for voice painting and sound recording

Windows: Windows 95/98/ME/00/NT w/SP 5; Pentium 233 MHz; 32MB RAM; 100MB hard disk space (330MB for full install); 4X CD-ROM; 800 x 600 video, High Color (16 bit); Win compatible sound card; Microphone required for voice painting and sound recording

A mouse for each computer

Printers (color preferably)

Butterfly tower (sticks and sugar water for feeding)

Real living caterpillars (Painted Lady)

Luna Moth cocoon (only if doing a comparison)

Graphic Organizer

Teacher Preparation: Make sure students have had a thorough introduction to Kidpix and all its uses. Use the computer lab at least 4 weeks prior to activity. (For younger grades, you may want to spend more time with the program).

Teacher needs to order caterpillars and cocoon from a science company two weeks prior to unit. When caterpillars and the cocoon arrive, place in butterfly tower or a built home. Introduce caterpillars and cocoon to students and explain the process in which the class will be involved. Have alternate activities throughout the course of a month to explain life cycles, habitat, food, and any other information you would like your children to understand (according to grade level).

Student preparation: After caterpillars have formed chrysalides and have hatched, have students record their observations in a journal. After cocoon has hatched, have students record their observations in journal. After completing all the steps through the life cycle, have students create a graphic organizer using the computer program, Kidpix. You may want to adjust the difficulty of the

project depending on grade level. Students will need to know how to operate the program (all the tools, printing, and typing).

Activities: Students will create four boxes. They will label each box 1-4. Older students can also label boxes (egg, caterpillar, chrysalis, butterfly) accordingly. In each box, have students draw a picture of what they observed in each stage. Examples: Egg (the students will probably not see this, so you may want to use a book to show the students where the eggs are laid and what they look like). Caterpillar (make sure they have recorded the colors and where they saw the caterpillars (an environment)). After completing each picture with as much detail as possible, have students type their name, select printer, and print picture. You may want them to save their pictures in a folder, but usually the younger children do not have to do this.

Assessment: Follow rubric or modify to your own classroom. (See page 2).

Follow-up Activities: Activities may include making a story about the life of a butterfly, putting together pictures, a butterfly craft, or read more stories about butterflies and moths.

Rubric

Lab Report: Life Cycle of Painted Lady Butterfly

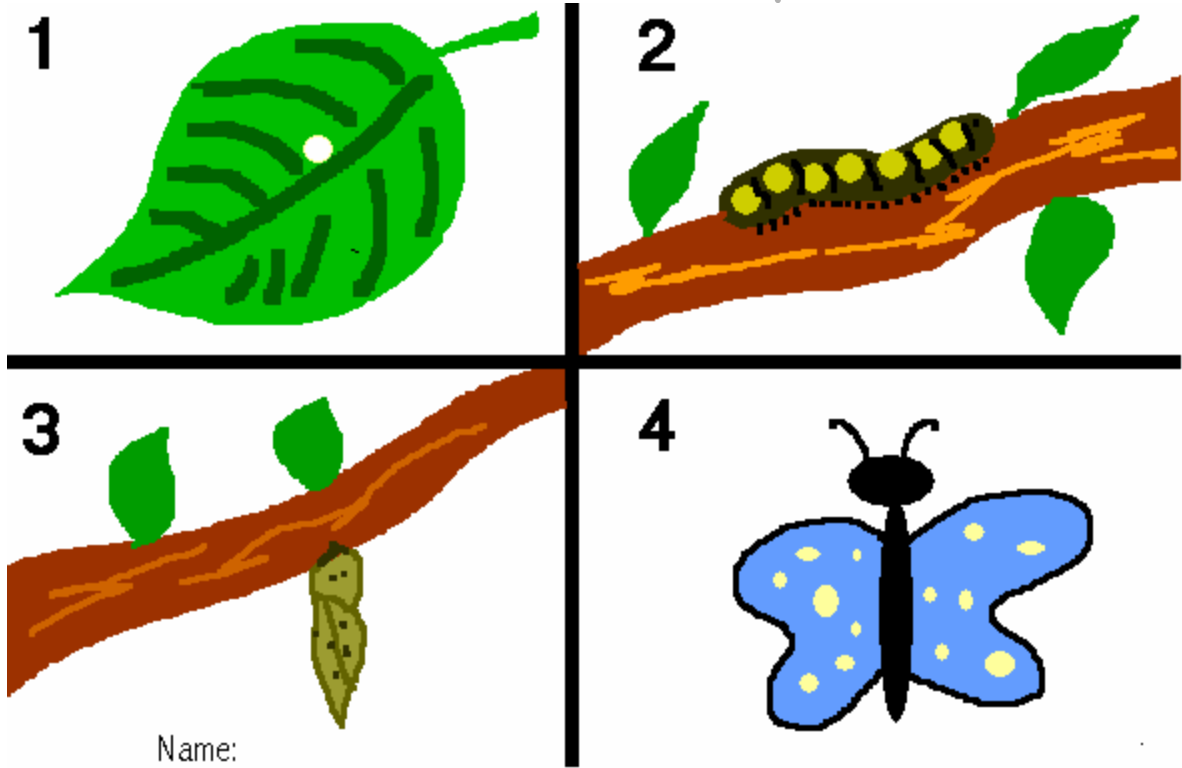
Teacher name: Heather Spriet

Student Name _____

CATEGORY	Excellent	Good	Satisfactory	Needs Improvement
Components of the report	All drawings are present in each box in the graphic organizer and are properly labeled.	All drawings are present in each box in the graphic organizer.	One drawing is missing from the graphic organizer.	Several drawings are missing from the graphic organizer.
Drawings/Diagrams	Clear, accurate pictures are in all four boxes and have detail.	Pictures are clear and accurate.	Pictures are clear, but not much attention to detail.	Pictures are not clear and there is no detail.
Appearance/Organization	Graphic organizer is neat, clear, and has name.	Graphic organizer is neat and has name.	Graphic organizer is neat, but no name included.	Graphic organizer is not neat and does not have a name included.

Date Created: 2002-05-23

Student Example



Here is an example from a Kindergarten class. Please notice there are no words, but you may want to include them with the older students.