

Lesson Plan

INSECTS

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Title: Bugs
Subject: Science
Intended Grade Level: 3rd

Description

In this unit, students will learn characteristics of insects, be able to identify their habitats, describe the process of metamorphosis of a caterpillar to a butterfly, identify various roles of bees, identify the parts of an ant anatomy and describe their role.

Faith Integration

This lesson will provide a simple connection between the subject and our faith. The following Bible verses help to integrate the lesson.

“Go to the ant, you sluggard, consider its ways and be wise!
It has no commander, no overseer or ruler. Yet it stores its provisions
in summer and gathers its food at harvest.”

Proverbs 6:6-8

“Ants are creatures of little strength, yet they store up their food in
the summer.

Proverbs 30:25

“But ask the animals, and they will teach you, or the birds of the air,
and they will tell you, or speak to the earth and it will teach you, or let
the fish of the sea inform you. Which of all these does not know that
the hand of the Lord has done this. In his hand is the life of every
creature and the breath of all mankind.”

Job 12:7-10

Curriculum Benchmarks

- *Basic operations and concepts
Students demonstrate a sound understanding of the nature and operation of technology systems.
- *Social, ethical and human issues
Students practice responsible use of technology systems, information and software.
- *Technology productivity tools
Students use technology tools to enhance learning, increase productivity and promote creativity.
- *Technology communications tools
Students use a variety of media and formats to communicate information and ideas effectively to multiply audiences.

Materials

- *Computers
- *Digital Camera
- *Books
 - Eric Carle Books
 - “The Grouchy Lady Bug”*
 - “The very Hungry Caterpillar”*
 - “The Very Busy Spider”*
 - “The Very Lonely Firefly”*
 - “The Very Quiet Cricket”*
 - D.M. Souza Books
 - “Insects in the Garden”*
 - “Insects Around the House”*
 - Charles Curran Book
 - “Insects in Your Life”*
 - Harris Petie Book
 - “Billions of Bugs”*
 - Walter Blaney Book
 - “How Insects Life”*
 - Dorothy Patent Book
 - “How Insects Communicate”*
- *Video/DVD
 - Dream Works *“Antz”*
 - Disney’s *“A Bugs Life”*

Teacher Preparation

- *Have supplies ready and accessible
- *Teach background information on the subject
- *Create an eye catchy bulletin board
- *Xerox worksheets
- *Bookmark the following sites:
 - <http://www.abcteach.com>
 - <http://www.atozteacherstuff.com>
 - <http://www.enchantedlearning.com>
 - <http://www.EdHelper.com>
 - <http://www.teacherplanet.com>

Student Preparation

- *Needs to know how to operate a digital camera
- *Needs to know how to save and print digital pictures
- *Needs to have a background knowledge of insects
- *Students may bring in magazines, books...with information regarding this subject

Activities/Procedures

- *Students will identify the characteristics of insects.
They will observe insects in various settings (home, backyard, school, plant bed...)
- *Students will identify various habitats of insects through observation.
- *Students will describe the process of metamorphosis of a caterpillar through to a butterfly. The class will actually watch the a caterpillar metamorphosis into a butterfly and then set the butterfly free.
- *Students will identify various roles of bees (queen, workers, robbers)
A small ant farm will be available for observations.
- *Students will identify the parts of an ants anatomy.

- *Students will identify the various roles of an ant within an ant colony.
- *Students will take pictures and make a scrapbook of favorite bugs.
- *Students will “eat” dirt and worms. (Oreo cookies, chocolate Pudding, gummy worms)
- *Students will create their own bugs out of marshmallows, Twizzlers, M&M’s, rice crispies...)
- *Students will make a “Don’t Bug Me” door hanger.

Management Plan

All worksheets and discussions will be done as a whole class. After unit has been taught, the final project will be described. Each child will have ample time to collect materials needed for the final project. Students will have the option to work alone or in pairs for this final project. Class time will be given for students. If the student is using a digital camera, they will be given time to take pictures. If the student wishes to use KidPix, a computer schedule will be devised for students to sign up for computer time. If the student decides to gather pictures from the internet, they must sign up for computer time as well.

Ethics

At the beginning of the school year, each student and parent must sign a contract regarding appropriate use of the computer. The teacher will give input as to the ethics of copyright rules as needed. If students download pictures from the internet, the teacher must show how credit is to be sited. If the student receives help from outside sources, the teacher must also show the student how to site credit.

Assessment/Evaluation

- *Class participation

- *Worksheets

- *Final assessment – test over insects

- *Final project – each student will create a scrapbook or a poster using a digital camera, pictures downloaded from the computer, or KidPix.

Follow-up Activities

- *Student will present their final project to their class.

- *Students will do crafts related to insects.

(Some are listed under the activities section of this assignment)

Grading Rubric for Final Project

CATEGORY	4	3	2	1
Required Elements	The poster includes all required elements as well as additional information.	All required elements are included on the poster.	All but 1 of the required elements are included on the poster.	Several required elements were missing.
Knowledge Gained	Student can accurately answer all questions related to facts in the poster and processes used to create the poster.	Student can accurately answer most questions related to facts in the poster and processes used to create the poster.	Student can accurately answer about 75% of questions related to facts in the poster and processes used to create the poster.	Student appears to have insufficient knowledge about the facts or processes used in the poster.
Content - Accuracy	At least 7 accurate facts are displayed on the poster.	5-6 accurate facts are displayed on the poster.	3-4 accurate facts are displayed on the poster.	Less than 3 accurate facts are displayed on the poster.
Graphics - Originality	Several of the graphics used on the poster reflect a exceptional degree of student creativity in their creation and/or display.	One or two of the graphics used on the poster reflect student creativity in their creation and/or display.	The graphics are made by the student, but are based on the designs or ideas of others.	No graphics made by the student are included.
Mechanics	Capitalization and punctuation are correct throughout the poster.	There is 1 error in capitalization or punctuation.	There are 2 errors in capitalization or punctuation.	There are more than 2 errors in capitalization or punctuation.
Attractiveness	The poster is exceptionally attractive in terms of design, layout, and neatness.	The poster is attractive in terms of design, layout and neatness.	The poster is acceptably attractive though it may be a bit messy.	The poster is distractingly messy or very poorly designed. It is not attractive.

Worksheets

Download the following worksheets from www.enchantedlearning.com

Life Cycle of an Ant
Label the Butterfly
Alphabetical Order
Butterfly Crossword
Origami Butterfly
Caterpillar Anatomy

Download the following worksheets from www.abcteach.com

Bees
Honey is As Sweet As
Bee Report
What's the Difference