

PEARSON



Partners in Educational Change

Richmond, Virginia
August 5, 2009



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Agenda

Learning Object-Based Development of Educational Materials (media independence) (5 mins--B)

using middle grades to show how print, digital, and lab activities are constructed to support a single standard—chosen from a real Virginia SOL

Role of Instructional Design and Pedagogy in educational materials—showcase UbD in MG and Bio (2 mins--B)

Bio Product Showcase—highlight how product supports full continuum of traditional classroom (book) to next generation virtual classroom (Biology.com) (5 mins--B)

Set the table for Open Source discussion: what Pearson provides is scrutinized, non-biased content that aligns to the Virginia adoption process (3 mins--L)

California Science Case study (5 mins--L)

Goal for the Day

To continue a conversation about educational change and new ways we can work together to improve teaching and learning.



The education system will evolve into a truly learner centric enterprise with schools becoming 'solution assemblers' in a personalized system.

*Source: Dresdner Kleinwort Equity Research
U.S. School Publishing (Pearson - an emerging
winner in US school publishing) - January 2007*

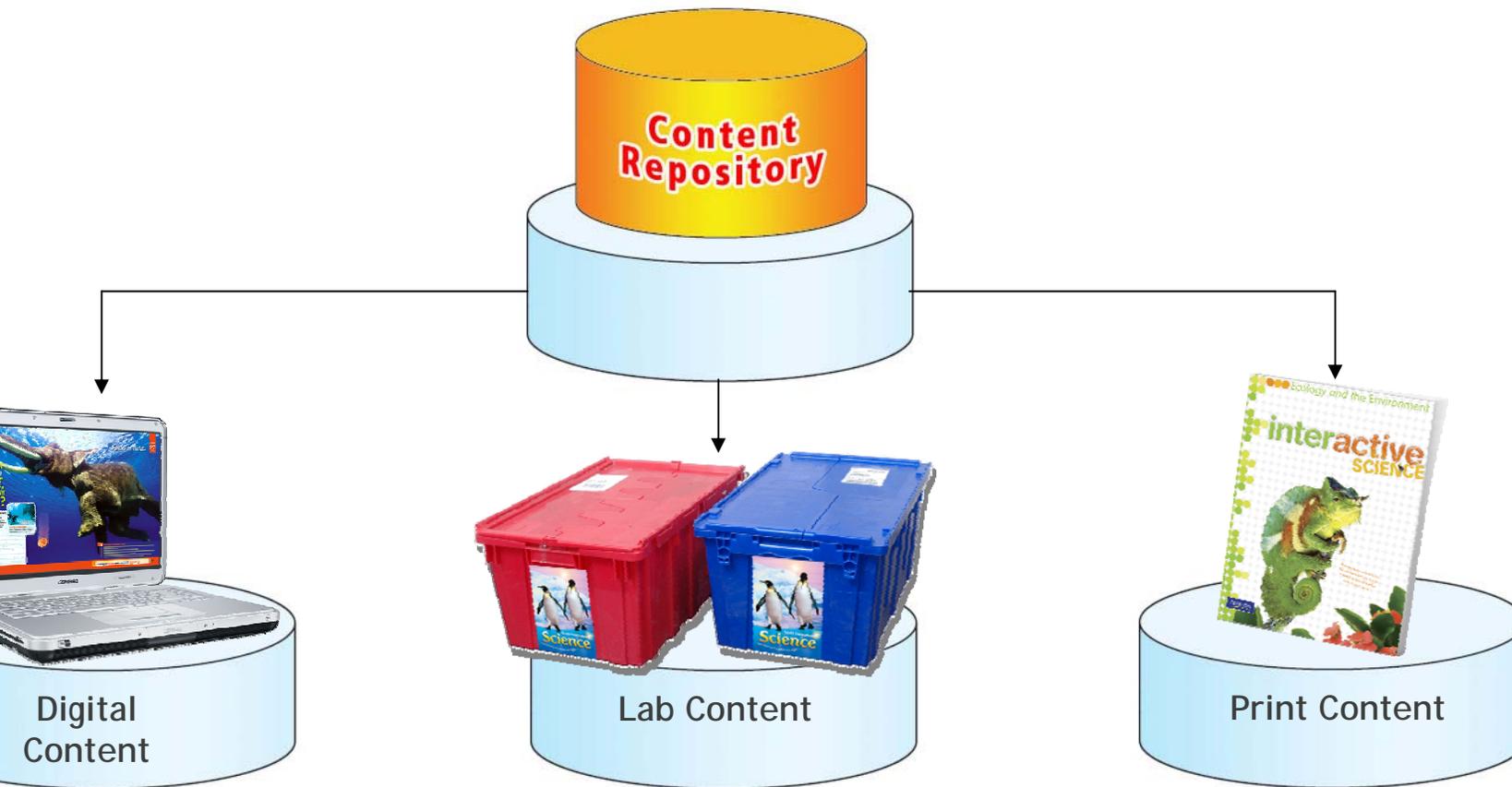


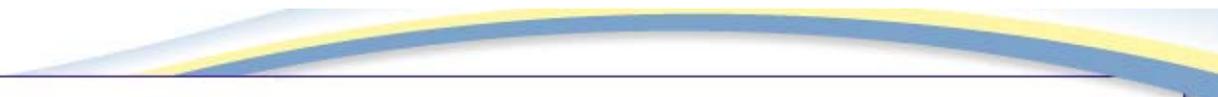


Pearson Solutions Objectives

- Complete alignment to state and district level curriculum needs
- Create next generation programs that drive personalization through digital content
- Implement aligned, integrated and interoperable products, services, platforms and systems

Content Development at Pearson





How does this work in Virginia?

Middle Grades Standard of Learning LS.4:

The student will investigate and understand that the basic needs of organisms must be met in order to carry out life processes.



allest primates
 k similar. Look
 difficult for the len
 their own kind o
 season. Howev
 urs can identify
 song. Scientists
 s of the three
 covered that
 he calls for
 ws the lem
 n at night.



Name _____ Date _____ Class _____
Quick Lab 15 min

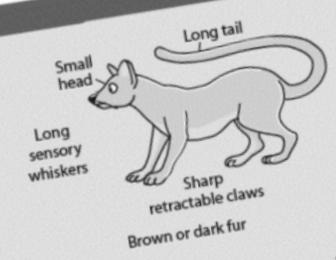
Organisms and Their Habitats

An animal's habitat provides everything it needs to survive. Before zoo workers create habitats for animals in zoos, they must first know a great deal about the animal's natural habitat.

INQUIRY FOCUS **Inferring**

Procedure

1. Study the illustration of the fossa, a rare mammal.



Think It Over

- 1 Use the illustration to infer what specific survival needs this animal may have.
 - a. Do you think this animal grazes on plants or hunts other animals? On which features did you base your inference? Explain.
 - b. Do you think this animal lives on the ground or in trees? On which features did you base your inference? Explain.
- 2 Using your answers to Questions 1a and 1b, describe the fossa's habitat, including as many details as you can.

Habitat MY SCIENCE COACH

Environment?

Date _____ Class _____
Inquiry Warm-Up 15 min

the Scene?

all the living and nonliving things in an area. Think
 ear you. What are some living and nonliving things
 onships between the living and nonliving things?

ring

re showing a scene from a
 ture onto a sheet of paper,
 e picture.

ture that is alive. Use a
 from each living thing to
 you know its name, write

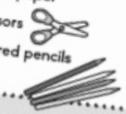
, label each nonliving

onnecting the living
 y need.

ing things to the nonliving things in the picture.
 nship between the living things and the non-

Materials

- magazines with nature scenes
- glue
- white paper
- scissors
- colored pencils



Do the Quick Lab
 Organisms and Their Habitats.

ow does the living thing in
 ng? What is a simple way you could

DIGITAL

my science
online .com



Engage students
where they are in the
digital world



Unit 6 > Chapter 1 > Lesson 1

Engage & Explore

Explain

Elaborate

Evaluate

Apply It

Do the Math

Art in Motion

Interactive Art

Real World Inquiry

The Nebraska Plains

Bald Eagle

Information

Media



Haliaeetus leucocephalus

Bald Eagles are 80-95 cm tall with a wingspan of 180-230 cm. These birds are born with all brown feathers but grow white feathers on their head, neck, and tail.

Layers List

Show



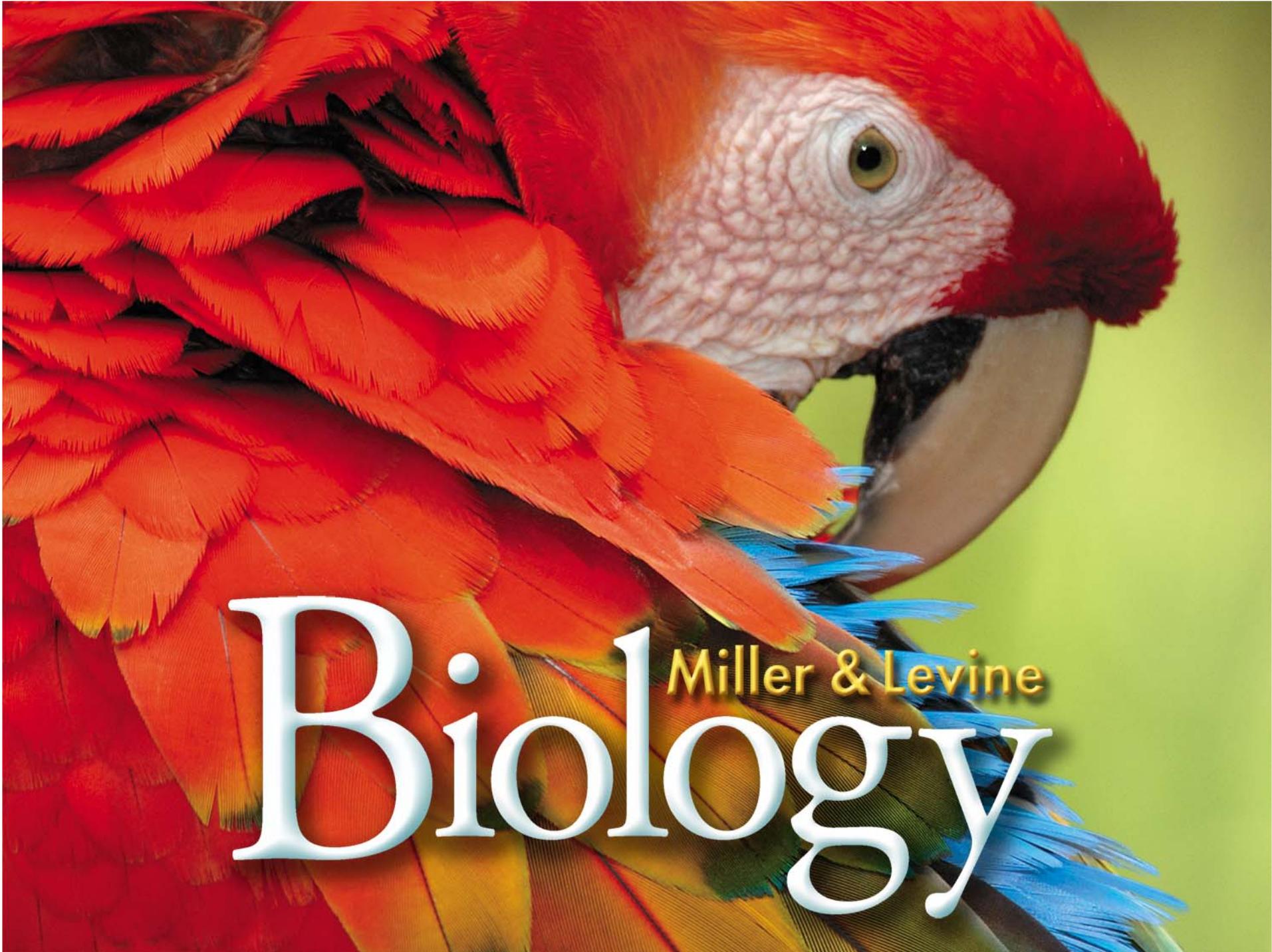
Tools



Next

22
of
22

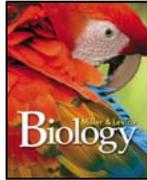
Back



Miller & Levine
Biology

The Miller & Levine Collection

Standards Aligned Content for All Students and Teaching Preferences

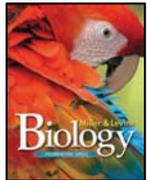


Miller & Levine Biology

Comprehensive On-Level Program

Miller & Levine Biology

The respected author team of Ken Miller and Joe Levine are back with a new edition to inspire students to interact with trusted and up-to-date biology content. The authors' unique storytelling style engages students in biology, with a greater focus on written and visual analogies.



Foundations Edition

Struggling Learners Program

Foundation Edition: Miller & Levine Biology

This option includes the same content as the *Miller & Levine Biology* textbook, but is written at a below-grade reading level with embedded reading support to ensure struggling learners master key biology concepts.



Core Edition

Concise Textbook with Expanded Online Support

Core Edition: Miller & Levine Biology

This program offers an environmentally friendly way to teach biology with a concise textbook that uses the first five standards-based units of the *Miller & Levine Biology* textbook combined with robust digital support.



Biology.com

Complete Online Program

Biology.com and Biology.comPLUS

Biology.com and Biology.comPLUS serve as the dynamic digital component of the Miller & Levine Collection. This robust digital support includes a wealth of assets, such as complete online Student and Teacher's Editions with audio, and editable worksheets, interactive study guides, games, and online assessments with remediations.

PEARSON

Built for the 21st Century: Biology.com

THE MYSTERY | MYSTERY CLUES | SOLVE THE MYSTERY | EXPLORE WITH UNTAMED SCIENCE

Chapter Mystery

CHAPTER MYSTERY The Pet Shop Accident

Consider the role of the cell cycle in wound healing.

How might the cell cycles of the cells surrounding the salamander's wound be affected?

UNTAMED SCIENCE | VOCABULARY | ASSESSMENT

Flash Cards | Crossword

FLASH CARDS Cell Growth and Division

A-D | E-H | I-L | M-P | Q-T | U-Z | MY CARDS

CREATE A CARD

blastocyst
cancer
cell cycle
cell division
centriole
centromere
chromatid

cytokinesis
Definition: division of the cytoplasm.
BUILD Vocabulary
WORD ORIGINS The word "cytokinesis" and derives from the Greek "cyto" meaning "cell" and "kinesis" meaning "movement." Cytoplasm is an

Cell membrane draws inward.
Cell plate forms.

Plant Cell

LESSON OVERVIEW | LESSON NOTES | ACTIVITIES | ASSESSMENT

Inter Active Art | Data Analysis | Art Review | Tutor Tube

TUTOR TUBE Unraveling Chromosome Vocabulary

prophase

chromatid

chromosome

LESSON OVERVIEW | LESSON NOTES | ACTIVITIES | ASSESSMENT

Inter Active Art | Data Analysis | Art Review | Tutor Tube

ART REVIEW Eukaryotic Chromosome

Duplicated chromosome

Nucleosome

Coils

Supercoils

Centromere

Histone protein

Chromatid

DNA double helix

VISUAL ANALOGY

GROWING PAINS

FIGURE 10-2 Lots of growth can mean lots of trouble—both in a town and in a cell. Use Analogies How does cell growth create a problem that is similar to a traffic jam?

LESSON OVERVIEW | LESSON NOTES | ACTIVITIES | ASSESSMENT

Art in Motion

ART IN MOTION Growth of Cancer Cells

Metastasis
Cancer cells are particularly dangerous because of their tendency to spread once they enter the bloodstream or lymph vessels. The cancer then moves into...

Growth of Cancer Cells
Abnormal Division
Tumor Production
Metastasis

Partnership for Change

Learning Initiative California Example

PEARSON

Pearson
free learning
INITIATIVE

PEARSON

Biology



Students explore the science of biology in an interactive and engaging way. This online resource provides a powerful framework for connecting the big ideas of biology to the California standards.

[View](#)

Chemistry



Bring content to life with this exploration of chemical concepts and process. Step-by-step instruction provides frequent opportunities to practice and reinforce key concepts on-line.

[View](#)



Other products & services for sale from Pearson

Comprehensive Digital Solutions
Aligned to California state standards, our wealth of comprehensive digital products deliver immediate and meaningful content.

[View](#)

Support for all students
Pearson offers a complete array of assessment and intervention systems including, Success Tracker™ and MathXL™.

[View](#)

Professional Development
A comprehensive set of programs guide teachers through the changing world of education, offering everything from online and onsite workshops.

[View](#)

For More information
1-800-653-1918

Algebra 2



This on-line resource provides an overview of key concepts in Algebra with notetaking guides, daily practice and problem solving practice to help students master California Algebra 2 standards. Chapter level vocabulary and study skill support aids in student success on assessments.

[View](#)

Geometry



This on-line resource provides an overview of key concepts in Geometry with notetaking guides followed by daily practice and problem solving help students master California Geometry standards. Chapter level vocabulary and study skill support aids in student success on assessments.

[View](#)

InterAct Math Online Tutorial Exercises



InterAct Math provides self-guided, web-based math practice and tutorial help for Calculus, Trigonometry, and Algebra 2. The tutorial is designed to help California students master specific skills in a wide range of math topics.

The tutorials below require you to have Adobe Flash Player installed, please download it here:



Finney/Demana/Waits/Kennedy, Calculus: Graphical, Numerical, Algebraic 3e:

[Launch Tutorial](#)

[Calculus Standards Correlations](#)

Lial/Hornsby/Schneider, Trigonometry 9e:

[Launch Tutorial](#)

[Trigonometry Standards Correlations](#)

(Algebra 2 link and standards to come)

Critical Considerations for the future

- Ensure that low income and disadvantaged students receive equal access
- Addressing the needs of English Language learners
- Protect the intellectual property rights of content and technology creators
- Regardless of the source, in order to ensure student success, content must be fully vetted, unbiased, and completely aligned with the Virginia SOLs
- Retain high quality content, alignment with state standards, appropriate teacher support, and a research-based approach, all of which are are hallmarks to effective learning

Wrap-Up/ Q and A



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