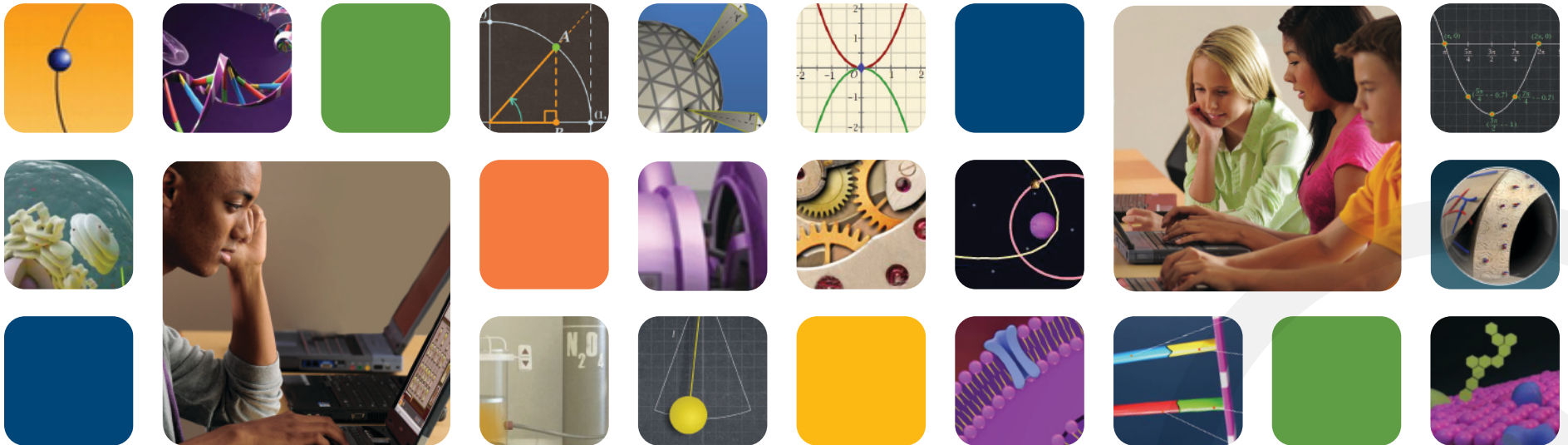


ac / math & science

Dynamic, Interactive Learning



Adaptive Curriculum's award-winning instructional solution builds middle and high school math and science mastery through dynamic, interactive learning. Our real-world active learning approach motivates learners to explore, make hypotheses, manipulate items, and see the impact of their decisions. Adaptive Curriculum's more than 500 Activity Objects, or lessons, are standards aligned, complementing existing curriculums and addressing more than 2,000 Learner Objectives. Its easy and flexible delivery allows it to be used for whole or small group or individual instruction. With Adaptive Curriculum, students acquire core mastery through active participation in an immersive, differentiated and exciting learning environment that provides real-time feedback and assessment.



Adaptive Curriculum's Award-winning Instructional Solution

Our program builds middle and high school math and science mastery through dynamic, interactive learning. Unlike other programs developed from print, Adaptive Curriculum was developed as a digital solution to take full advantage of the online environment and cutting-edge instructional tools such as interactive white boards.

Active Learning & Engagement

Adaptive Curriculum's immersive learning environment engages students to explore concepts, create and test hypotheses and manipulate items. In addition, it offers:

- Differentiated Instruction
- Spanish language support
- Multimedia and multi-sensory delivery for different learning styles



Math & Science Mastery through Dynamic, Interactive Learning

Adaptive Curriculum lessons or digital Activity Objects are built utilizing the most recent research and proven instructional strategies and pedagogy. Incorporating rich multimedia and real-world scenarios, Activity Objects are intentionally created to engage today's digital age learners and promote active learning. This guided discovery approach builds deep concept mastery and lasting understanding.





Dynamic & Flexible

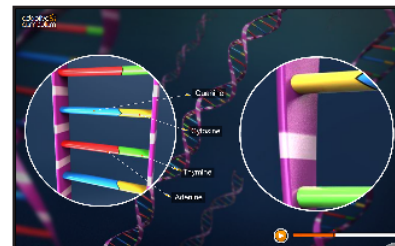
Adaptive Curriculum is web based and portable (access anywhere, anytime), providing teachers tremendous flexibility for application. Easy integration with white boards leverages school technology investments and provides opportunities for group learning, problem solving and discussion.

Standards Alignment (State & Common Core)

Adaptive Curriculum's more than 500 Activity Objects are standards based and STEM focused, created to build deep concept mastery of math and science standards. The Activity Object library is ever growing and regularly updated to address new state and federal standards, such as Common Core. Built-in standards alignment and search capabilities allow teachers to quickly and easily choose Activity Objects that address their specific

curriculum and standards requirements.

- Core Alignment
- State Standards Alignment
- NCTM and NSTA Alignment
- Multiple Textbook Alignments



Adaptive Curriculum Testimonials

"The activities are extensions to reinforce the concepts and they require critical thinking. The majority of my students had a "light-bulb" moment after completing the activities. Most students commented that they understood the larger "picture" behind the science applications after having completed an assigned activity."

Sherri Anderson
Bear Creek Middle School

"I have seen an improvement in student self-esteem, participation and engagement, assignment completion rate and even OGT scores. I think it has benefited my students in many ways. I also think it has given me new ideas and ways of introducing concepts. Thank you."

Roseanne Bauer
Electronic Classroom of Tomorrow



More than 200 Math Activity Objects

adaptive curriculum

Volume of the Sphere \approx The Sum of the Volume of the Pyramids

a_1 a_2 a_n

Volume of the

Based on your
pyramids?
Volume of a

PLAIN

Volume of the Sphere \approx The Sum of the Volume of the Pyramids

Visual Proof: These Activity Objects guide learners through the process of developing formulas, theorems and relationships.

Formula for the Volume of a Sphere



Problem Solving: These Activity Objects engage learners in problem solving scenarios.

Problem
Using the recipe as a guide, determine how many eggs Celine needs to make the maximum number of cookies possible with the ingredients that she has in her kitchen.

Given

Ginger Cookies (24)
Ingredients
• 1 egg
• 1 cup of sugar
• 4 oz oil
• 2 cups of flour
• 3 tsp. ginger

SUGAR 5 cups
OIL 16 oz
FLOUR 4 cups
GINGER 1 jar
? ?
unknown

Problem Solving Involving Ratio and Proportion

Skills Application: These Activity Objects help learners apply rules and procedures to strengthen computational skills.

Find a line l_2 in the form $ax + by = c$ that is parallel to l_1 .

$l_1: -8x + 4y = -32$
 $m_1 = \frac{2}{1}$

$l_2: 1.25x + 1y = 4$
 $m_2 = -\frac{5}{4}$

Intersection Point: (3.69, -0.62)

Is there a relationship between the slopes of parallel lines?

Parallel and Perpendicular Lines

Concept Development: These Activity Objects introduce difficult concepts using real-world scenarios.

There exists angles larger than 360° and smaller than 0° .

Co-Terminal Angles

Interactive Exercise: These Activity Objects provide learners with additional opportunities to develop conceptual understanding.

Pythagorean Th
 $d^2 = a^2 + b^2$

$h = 30\text{ m}$
 $r = 12\text{ m}$
 $d = \text{ } \text{m}$
 $l = \text{ } \text{m}$

(Take $\pi = 3$)

Using the Pythagorean Theorem to Solve Problems

More than 200 Science Activity Objects

The screenshot shows a 3D simulation of an island with a volcano, a village, and various energy sources. The interface includes a top-left logo for 'adaptive curriculum', a main instruction 'Construct an energy system in the island.', and a top-right budget indicator showing '\$ 100K'. On the left, a clipboard icon is next to a grid of colored circles representing different energy components. On the right, four control panels allow users to adjust the levels of different energy sources, each with a '+' and '-' button and a progress bar. The island features a hydroelectric dam, solar panels, wind turbines, and a power plant. A 'START' button is located in the bottom right corner. In the bottom left corner, there are icons for information and a refresh/reload function.

Renewable Energy Sources 3D Model

Interactive 3D Model: *These Activity Objects allow learners to explore scientific structures using interactive 3D models.*



Utilizing the 5E Instructional Model

Activity Objects are built on a design of structured instruction consisting of a carefully crafted sequence of activities to promote conceptual learning utilizing the 5E Instructional Model (BSCS, 2006; SCIS, 1973). The five-step process of the model includes:

1. Engage

This phase initiates the learning task and peaks the interest of students.

2. Explore

This phase provides students with experiences designed to develop current concepts, processes and skills.

3. Explanation

This phase focuses students' attention on a particular aspect of their engagement and/or exploration experiences and provides a definition for a concept, process, skill, or behavior.

4. Elaboration

This phase challenges and extends students' conceptual understanding and allows further opportunity for students to practice desired skills and behaviors.

5. Evaluation

This phase assesses students' understanding and their ability to achieve proficiency over the Learner Outcomes.

Activity Object: Habitat Designer: Panda



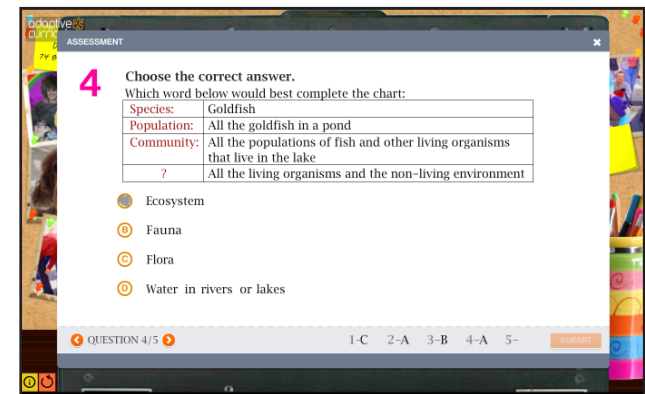
1. Engage: Students are invited to participate in a natural park design competition for endangered species.



4. Elaborate: Core Concepts are elaborated upon, leading to deeper understanding. Increasingly challenging assessment is layered with elaboration to provide richer learning opportunities.



2. Explore & 3. Explain: Students explore for the proper ecosystem components, such as flora and fauna, to add to their natural park design. Further explanation is provided on core concepts.



5. Evaluate: Knowledge of ecosystem and habitat of panda is tested through a series of assessment questions.



Whole Group



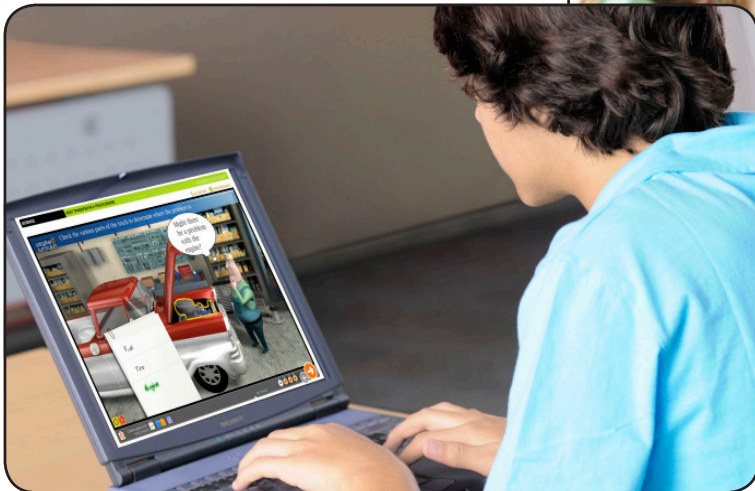
Dynamic and Flexible

Adaptive Curriculum's standards-based approach and modular structure adapt to any curriculum, offering teachers a powerful and flexible instructional resource. In addition, Adaptive Curriculum can be used anytime, anywhere and in a variety of settings, providing teachers with a wide array of application possibilities.

Small Group



Individual



Adaptive Curriculum Testimonials

"8th grade students absolutely love Adaptive Curriculum. It is so interactive, gives immediate results and is a wonderful diagnostic tool. Out of every program our school has purchased, without a doubt, Adaptive Curriculum is the best!"

Larissa Cowey
Martin Middle School

"This product is extremely interactive and can engage students to no end. The material never gets dull for them and my kids always want to lead the class from the board so that they can show off their skills using Adaptive Curriculum."

Brian Ross
Gochland Middle School



Professional Development

Adaptive Curriculum's software is complemented by outstanding online and onsite professional development. Our professional development team works directly with school and district teams to ensure successful program implementation of Adaptive Curriculum, including providing strategies to compliment existing curriculums and to fully leverage and integrate Adaptive Curriculum.

Adaptive Curriculum offers:

- Tiered Professional Development Options
- Onsite Professional Development
- Webinars
- Robust Web support including video tutorials and product walkthroughs

Supplementary Tools

Teachers and students are also provided with a rich array of supplemental support materials

Assessment Component

Assessments track student progress and report the results to teachers and students.

Activity Sheet & Enrichment Sheets

Activity Sheets are designed as student handouts and/or for formative assessments, as well as for school/home communication. All Activity Sheets have Teachers' Editions for quick reference.

Teacher Guide

The Teacher Guide is essentially a comprehensive lesson plan. It is designed to provide detailed information on each Activity Object.

The information provided in the Teacher Guide includes:

- Background information on Activity Object content
- Strategies for engaging learners
- Strategies for overcoming learner misconceptions
- Real-world connections
- Aligning assessments with outcomes

Assessment

ASSESSMENT RESULT

1	D	A	✗	SOLUTION	6	B	B	✓	SOLUTION
2	A	A	✓	SOLUTION	7	D	D	✓	SOLUTION
3	E	E	✓	SOLUTION	8	B	B	✓	SOLUTION
4	B	B	✓	SOLUTION	9	C	C	✓	SOLUTION
5	D	D	✓	SOLUTION	10	C	C	✓	SOLUTION

90%

Duration: 13 minutes, 28 seconds

Well done! You have answered most of the questions correctly. Please check the solutions for your incorrect answers.

Activity Q&A Sheet

BIOLOGY PARASITISM

Activity Sheet - Teacher Copy

Learner Journal

Ask students to work on the following questions while they are doing the activity.

Section 1

1. Name the three types of symbiosis.
 - a) mutualism
 - b) commensalism
 - c) parasitism

Teacher Guide

BIOLOGY PARASITISM

Teacher Guide

Short Description

The students are introduced to parasitism and they conduct an experiment combining two species in a parasitic relationship.

Learner Outcomes

After completing this Activity Object, students will be able to:

- (LO1) Explain that in parasitism, one organism benefits and the other is harmed.
- (LO2) Identify organisms that are in parasitic relationships.
- (LO3) Differentiate between the following forms of symbiosis; mutualism, commensalism, and parasitism.

My Adaptive Space: The Adaptive Curriculum Teacher Portal

Student Management and Reporting

MANAGE MY CLASSES

Class: My Class	0 Students	Delete	Edit
Class: 7th Grade Algebra P1	5 Students	Delete	Edit
Bowen, Sandy	sandybowen	Delete	Remove
Palmer, Raymond	RAY	Delete	Remove
Roy, Carler	croy1	Delete	Remove
Sanders, Kyle	kylesanders	Delete	Remove
Smith, Brianna	BRIANNA	Delete	Remove
Class: 7th Grade Science P3	5 Students	Delete	Edit
Daglio, Chris	9846	Delete	Remove
Gutierrez, Jessica	93041	Delete	Remove
Moralies, Tiffany	902851	Delete	Remove
Reynolds, Patrick	920175	Delete	Remove
Sanders, Suzanne	96284	Delete	Remove
Class: Math Science Combined	4 Students	Delete	Edit

Expand All Collapse All Add Student New Class

Simple navigation and student and class management.

Standards and Textbook Alignment

ACTIVITY OBJECTS

- Chemical Bonding: Covalent Compounds**
Middle School - Science
This Activity Object introduces the concept of atoms sharing electrons to form covalent bonds, and learners construct models of molecules with covalent bonds.
Add To Lesson Plan See Details Play
- A Historical Introduction to Chemical Formulas**
Middle School - Science
Learners relate writing a chemical formula to writing musical notes.
Add To Lesson Plan See Details Play
- Chemical Compounds: Ionic Bonding**
Middle School - Science
Learners will be introduced to ions, and the formation of ionic bonds.
Add To Lesson Plan See Details Play
- Atomic Model History: Early Ideas to Thomson**
Middle School - Science
This Activity Object presents the evolution of the concept of the atom from philosophers of ancient Greece to early twentieth-century ideas.
Add To Lesson Plan See Details Play
- Atomic Model History: From Rutherford to Bohr**
Middle School - Science
Starting with Thomson's Model, the models of Rutherford and Bohr are presented.
Add To Lesson Plan See Details Play

Results per page: 250 results found

Adaptive Curriculum Activity Objects can be used to complement any curriculum. Alignment to state and national standards, as well as a number of textbooks, makes planning with Adaptive Curriculum easy.

Reporting

Assignment Score Report

Assignment: SEDspring2010 Assign Date: 08/23/2010 Due Date:

Student	Class	Progress	Metric System and Dimensional Analysis	Mutualism	Average
Amanda, White	secscifall10	In Process	90.00%	100.00%	95.00%
Augustine, DuPuis	secscifall10	In Process	90.00%	88.75%	89.38%
Jenna, Judd	secscifall10	In Process	100.00%	100.00%	100.00%
Justin, Johnson	secscifall10	In Process	90.00%	75.50%	82.75%
Keira, Van Tassel	secscifall10	In Process	70.00%	100.00%	85.00%
Sarah, Mereness	secscifall10	In Process	90.00%	82.50%	86.25%
Sienna, Silva	secscifall10	In Process	90.00%	100.00%	95.00%
Torbjorn, Isaksson	secscifall10	In Process	90.00%	100.00%	95.00%
AVERAGE			88.75%	100.00%	94.38%

Use Reports PDF HTML XLS CSV

Clear and intuitive assessment reports.

Assignment Report

Christine Palmer

- Compare and Order Mixed Numbers **Not Started**
- Adding and Subtracting Fractions and Mixed Numbers **Not Started**
- LP** Carter's Science1 **100% COMPLETED**
Assign Date: September 2, 2010 Due Date: September 30, 2010 Total Time Spent: 01:52:36
- From One Cell to Two: Mitosis **In Progress**
Total time spent: 00:17:54
- Blood Typing and Transfusions **In Progress**
Total time spent: 00:09:58
- Find the Heir: Genetics Applied **Completed**
Total time spent: 00:19:27
- Mendel's Experiment **Completed**
Total time spent: 00:18:27
- Genetic Inheritance in People **Completed**
Total time spent: 00:47:20
- LP** Brae's Science1 **NOT STARTED**
Assign Date: September 2, 2010 Due Date: September 30, 2010 Total Time Spent: 00:00:00

Get Report PDF HTML XLS CSV Close

Adaptive Curriculum Testimonials

"The interactivenss of the lessons. Students don't realize they are learning! It reinforces concepts that I do not teach in preparation for our state assessments."

Melissa Shannon
Martin Middle School

"Adaptive Curriculum provides hands-on, project-based experiences that empower students to learn critical concepts."

Cara Hercamp
Cave Creek Unified School District





Awards

Distinguished Achievement Award

2008

The Association of Educational Publishers

Best Science Instructional Solution

2009 CODiE Award Finalist

Software & Information Industry Association

Education Newcomer of the Year

2008 CODiE Award

Software & Information Industry Association

Best Online Instructional Solution

2009 CODiE Award

Software & Information Industry Association

Teachers' Choice Award

2009

Learning Magazine

Best Middle School Math and Science Website

2009 BESSIE Award

ComputED Learning Center

Rookie of the Year

2008 EdNET Award

The Heller Reports and Quality Education Data

Best Middle School Math and Science Website

2008 EDDIE Award

ComputED Learning Center

Adaptive Curriculum's math and science solutions are used by millions of students in the United States, Europe and Asia and are available in multiple languages. World-wide experts in math, science and online learning theory contribute to the content and design of the interactive activities for both Adaptive Curriculum and its parent company, Sebit Inc.

In the United States, Adaptive Curriculum has partnered with Arizona State University's Technology Based Learning Research Center, which provides pedagogical research, multi-disciplinary expertise and content collaboration. The company headquarters is located in the ASU SkySong Center for Innovation, Technology and Imagination.

Adaptive Curriculum

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