

# Discovery Education Science Oregon, Grades K-5/6

**Approved for Adoption**  
Use Basal Instructional Materials  
Funds for Purchase



## 21<sup>st</sup> Century Science for Oregon's Students

Discovery Education Science is an online basal service for elementary school supporting science inquiry with content tied to Oregon state science standards. The service provides core science content through multiple learning modalities, and coupled with a real-time assessment component that measures students' progress, it recommends individualized resources that reinforce classroom instruction.

Bolstered by comprehensive professional development and organized around an inquiry framework covering Physical, Earth and Space, and Life Sciences, Discovery Education Science is a digital resource designed to encourage exploration, stimulate critical thinking, and deepen students' understanding of science.



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Core Standards for Physical, Life, and Earth and Space Science	K	1	2	3	4	5
Structure and Function	√	√	√	√	√	√
Interaction and Change	√	√	√	√	√	√
Scientific Inquiry	√	√	√	√	√	√
Engineering Design	√	√	√	√	√	√

## Content correlated to the Oregon State Core and Content Standards and Essential Skills grades K-5/6

- Provides content in multiple digital formats for teachers and students to use in mastering the 2009 Oregon State Standards.
- Quickly find 6,000 digital elementary science resources (Video Segments, Reading Passages, eBooks, Interactive Explorations, Virtual Labs, etc.) that are searchable by Oregon State Content Standards. Assign resources to students or use them in presentations.
- Scientific Inquiry is fully addressed with unique attention to investigative design. Virtual investigations compliment and reinforce hands-on investigation.
- Engineering Design standards are taught through Virtual Labs and Simulations.

## Access instructional strategies, reading selections, and support materials to help students acquire the skills and knowledge needed to achieve the Oregon State Content Standards at grades K-5/6

- Includes an organized Teacher's Guide with model lessons that support differentiated instruction to help teachers use the service to target specific resources for presentation or for student use.
- Student worksheets, planning sheets, and record sheets are provided.
- Over 450 concept-specific leveled Reading Passages are available for student use.

- A standards-based formative assessment and teacher-directed remediation system is built into the design of the service.
- Each reading passage has an eBook version so that struggling readers are not locked out of science content delivered through text. eBooks highlight each word as it is read aloud.
- An interactive glossary with over 500 key science terms uses animation, video, images, and text to ensure that students grasp the meaning of key science terms that are a strong contributor to success on state assessments.

## Differentiate instruction by providing materials that address a wide range of learning styles and abilities

- Content is delivered in a variety of formats: text, video, and audio. Students can access content in a way best suited to their learning style.
- More than 470 Reading Passages and all on-screen text was leveled using the Lexile Framework and the Lexile Analysis Tool.
- eBook versions of the passages and on-demand audio support for all on-screen text are available to struggling readers and English Language Learners.
- An interactive glossary supports systematic vocabulary instruction.
- Over 150 Reading Passages have been translated into Spanish to provide a supportive measure for English Language Learners.

Discovery Education Science Digital Media Resource Type	Number
Video Segments	2,700+
Animations	526
Constructed Response Assessments	140
Interactive Explorations, Virtual Labs, Fundamentals, Science Slueths	223
Interactive Science Glossary Terms	517
Science Images	1,177
Reading Passages	470
eBooks	470

## Support Reading and Interdisciplinary Instruction

### Reading Skills

- > Reading passages for all science topics were developed for independent reading levels grades 3, 4, and 5.
- > Vocabulary is also a critical skill taught using the interactive glossary.
- > Literacy skills components supported: critical reading, fluency, reading comprehension.
- > Reading skills supported: cause and effect, sequencing, summarization.

### Mathematics Skills

- > Numerical data from Virtual Labs and Explorations utilize “realizable” numbers so that students can visualize the values, analyze the results, and develop graphs.
- > Students practice number and operation skills as they compare values and use calculation to solve problems.
- > Measurement units include those of mass, volume, and length as well as science measures such as force and distance over time.

## Provide formative and summative assessment materials which align in content to the Oregon Science Core and Content Standards at grades K-5/6

- > Support the cycle of formative assessment and instruction by providing a simple but efficient means for teachers to quickly assess students, review data, and assign remediation resources based on the results.
- > 2,100 item assessment bank, linked to remediation resources, searchable by specific Oregon State Science Standards or keyword.
- > Teachers can assign different remedial resources to different students, based on their learning styles as well as their content needs.

## Visually focused and uncluttered with clearly defined lesson objectives, and formatted for efficient student and teacher use

- > The design of the service is consistent with the on-screen technology needs of elementary students.
- > Large buttons, clear interactive elements, and simple navigation schemes help children feel comfortable accessing these materials.
- > Organized into an instructional pathway of Learn > Explore > Demonstrate > Extend.
- > All of the digital resources can be hyperlinked from district and state instructional or sequence documents.

## Build capacity through professional development and ongoing support including material specifically designed for use by the teacher to implement the science program

- > Contains an online professional development area including an interactive course that familiarizes teachers with each type of resource and its instructional uses.
- > Content support in the form of 141 “5-Minute Preps.” These interactive presentations allow teachers to brush up on a specific concept before they begin teaching it.
- > Links teachers to an extensive professional community - the Discovery Educator Network. Over 120,000 strong, this network fosters sharing and collaboration between educators throughout the U.S.
- > Discovery Education offers direct onsite science program training that incorporates science concepts, science practice, and the use of educational technology to improve achievement by differentiating instruction and monitoring student learning.

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## Inspire Technology-Savvy Students with Video and Interactives

- Immerse students in science with video segmented into concept-level clips including Mythbusters, Planet Earth, Jeff Corwin, Brink, and titles from WGBH.

## Reinforce Mathematics and Language Arts Skills with Science

- Learn to interpret data, draw conclusions supported by data, and practice important math skills through Virtual Labs.
- Engage students with an interactive glossary that provides vibrant explanations of hundreds of scientific terms via animations, text, videos, and images.
- eBooks with audio support provide struggling readers and ELL students with grade-appropriate informational science text.

## Improve Instruction with Real-Time Feedback

- Online assessment tools built into Discovery Education Science make differentiating instruction more efficient by providing timely recommendations for remediation so individual students can progress.

## Support for Success

- Teacher's Guide and DVD with digital resources provide pathways for instruction that address the needs of diverse classrooms.
- Onsite professional development to build capacity and ensure appropriate implementation.



Request a preview for your school or district at  
**DiscoveryEducation.com/Oregon.**

Questions? Call **800-323-9084** or  
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