

WORLD OF WORK – EIGHTH GRADE IMC Resources

[Environmental Engineering](#) – [Wind Energy](#) – [Urban & Regional Planner](#)
[Personal Financial Advisor](#) – [Optician](#) – [Financial Analyst](#)
[Learning Intentions](#)

Environmental Engineering Technician

Air quality (English/Spanish) (DVD) [81107]

Examines primary and secondary sources of air pollution, how the air quality is monitored by government agencies, and the factors that contribute to smog. 23 min.

California: California's climate change impacts (DVD) [81163]

Looks at the effects of climate change on California's water supply, ecosystems, and cities, and examines what is being done to reduce the state's carbon footprint. Includes maps, timeline, and teacher's guide. 30 min.

Core biology: environmental science (DVD) [81065]

Presents the core principles of environmental sciences by examining, in chronological order, the development of the concepts of biomes, ecology, ecosystems, and biodiversity. Program segments: 1920 - Biomes; 1928 - Theory of plant succession; 1949 - Ecology; 1953 - Ecosystems; 1957 - Ecology's concept of niche; 1969 - Five kingdoms of life; 1979 - Gaia hypothesis; 1986 - Biodiversity. 30 min.

Soil quality (English/Spanish) (DVD) [81106]

Although soil may seem plentiful, it can be polluted and depleted by natural and human activities. Examines the sources of soil pollution and some of the efforts taken to prevent it. 23 min.

Sustainability in the 21st century (English/Spanish) (DVD) [81104]

Sustainability refers to the capacity to provide for the needs of the world's current population without harming the ability of future generations to provide for themselves. Explore some of the challenges and successes of sustainability, consider some factors that can affect sustainability, and observe sustainability in action.

Water quality (English/Spanish) (DVD) [81105]

Explores what happens when the supply of available fresh water is overused, polluted, or affected by climate change. Considers the potential environmental, economic, and health effects of water pollution and what can happen when an area's water supply dwindles. Shows how conservation and innovation can help combat this problem. 23 min.

Wind Energy Project Manager

Green energy (English/Spanish) (DVD) [81096]

Introduces students to what green energy is and teaches about its potential to meet our energy needs in an ongoing, sustainable way. 23 min.

Wind (English/Spanish) (DVD) [81178]

There's a lot more blowing around than hot air when Bill Nye the Science Guy goes parachuting and sailing to show the relationship between the sun, earth, wind, and weather. Includes interactive glossaries and quizzes and an on-disk teacher's guide. 26 min.

Urban & Regional Planner

American landscape, 1930 / The Chrysler building, 1926-1930 (Art Print) [30245]

Side A: Painting - American Landscape by Charles Sheeler (1930). Side B: Five photographs of the Chrysler Building by William Van Alen (1926-1930). Guide available.

Architecture (English/Spanish) (DVD) [81171]

Bill Nye uses the "Dollhouse of Science" to demonstrate how architects design buildings. Then he travels to Japan to learn how pagodas are built to withstand earthquakes. Includes interactive glossaries and quizzes and an on-disk teacher's guide. 26 min.

California: California's climate change impact (DVD) [81163]

Looks at the effects of climate change on California's water supply, ecosystems, and cities, and examines what is being done to reduce the state's carbon footprint. Includes maps, timeline, and teacher's guide. 30 min.

California: geography – deserts, river, earthquakes and, human geography (DVD) [81160]

Examines the physical and human geography of California, looking at the reasons why the state is prone to earthquakes and exploring regions not formed by tectonic activity. Includes maps, timeline, and teacher's guide. 30 min.

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Kate Sessions (Kit) [50480]

Introduces local San Diego history through Kate Sessions and her contribution to San Diego and Balboa Park. Contains five (5) historical photographs, two (2) books and one (1) The gardens of Balboa Park map. THE TREE LADY: THE TRUE STORY OF HOW ONE TREE-LOVING WOMAN CHANGED A CITY FOREVER, by Joseph Hopkins: Tells the true story of Katherine Olivia Sessions, the first woman to graduate from the University of California with a degree in science, who brought trees to San Diego and helped create what eventually became Balboa Park. Nominated for 2015-2016 California Young Reader Medal in the "picture book for older readers" category. (RL 4.5; 760 Lexile) KATE SESSIONS: THE MOTHER OF BALBOA PARK, by Joy Raab Charming: Illustrations and simple text allows readers young and old to appreciate a woman instrumental in the development of one of the world's great urban parks. Includes maps and drawing of trees that Kate Sessions introduced that can be seen today in Balboa Park. Contains: 2 books / 5 photographs (11x14) / 1 map / 1 teacher's guide for book: The tree lady.

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Personal Financial Advisor**Setting and achieving goals (Michael Pritchard) (DVD) [81330]**

Comedian/counselor Michael Pritchard leads teens in a discussion of the benefits of learning to set and achieve goals, and helps them to distinguish between actual goals and mere wishes. Includes teacher's guide. 30 min.

Optician**Eyeball (Model) [34002]**

Five-part eyeball shows shape and function of eyeball. Has 2 halves; lucite lens, vitreous body and iris are all removable. 6 pieces.

Financial Analyst

Learning Intentions

Connect the dots: how school skills become work skills (DVD) [81053]

Students learn the connection between what one learns in school and what employees do at work. Explores how school skills contribute to a person's ability to think critically and solve problems, and how mastering these skills in school help make for a successful career. Even though their careers may be a long way into the future, connecting the dots right now will give students perspective and help motivate them to tackle tough subjects. Includes teacher's guide. 16 min.

Profiles in perseverance (DVD) [81327]

Provides a definition of perseverance, explains how students can set and pursue goals, profiles people who have overcome difficult situations, and contains a roundtable discussion of teens talking about perseverance as well as several example scenarios. Includes teacher's guide. 20 min.

Setting and achieving goals (Michael Pritchard) (DVD) [81330]

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