Spring 2018 POWER Library User Conference

Mad Science! - POWER Library Science eResources

This project is made possible in part by Library Services and Technology Act (LSTA) funds from the U.S. Institute of Museum and Library Services and through Library Access Funds administered by the Office of Commonwealth Libraries, Department of Education, Commonwealth of Pennsylvania, Tom Wolf, Governor.

Learning Goals

At the end of this session you will be able to

- Choose science products from the available POWER Library eResources
- Find lesson plans, activities, and downloadable materials available from
  - Science Reference Center
  - TrueFLIX
Science Reference Center

- A comprehensive research database that provides access to a multitude of full-text science-oriented content:
  - Full text reference books
  - Full text encyclopedias
  - Experiments, activities, and science fair projects
  - Biographies
  - And more!
Features

• Search Options:
  • Keyword searching
  • Browsing by category
  • Browse popular sources
  • Advanced searching
  • Featured Science Topic
  • Dictionary

• Reference Shelf
  • Lesson plans
  • Science experiments
  • Citation help
  • Research guide
  • Curriculum standards
  • Worksheets
Advanced Search Options

Search Publications
Dictionary

Subjects

Search for a term, then view
- Broader terms
- Narrower terms
- Related terms
Search Images and Video

Browse by Category
Browse by Category

Browse Popular Sources

Lesson Plans
Reference books
List of articles, etc.
PDFs
Featured Science Topic

Mae Jemison

Mae Carol Jemison is an American engineer, physician and NASA astronaut. She became the first African-American woman to travel in space when she went into orbit aboard the Space Shuttle Endeavour on September 12, 1992.

Reference Shelf

Reference Shelf

Lesson Plans
Science Experiments
Citation Help
Research Guide
Curriculum Standards
Worksheets
Reference Shelf Continued

Citation Help

Research Guide

Guide to Research, Writing and Critical Reading

Science Reference Center provides virtually all the information you will need to effectively conduct research on science topics and write research papers. Because there is a wealth of information contained in this database, this guide is provided to support your research and writing process, helping you to write the best possible paper. The following guidelines and tools are provided:

1. Research: How to Avoid Common Pitfalls
   - Step One: Understanding the Scope of Your Assignment
   - Step Two: Choosing Your Topic
   - Step Three: Beginning Your Research
   - Step Four: Taking Notes
   - Step Five: Sorting Cards and Making a Working Outline
   - Step Six: Drafting - How to Integrate and Balance Your Paper
   - Step Seven: Revising
   - Step Eight: Editing and Proofreading

Curriculum Standards

EBSCOhost Curriculum Standards

Browse:
- State: Pennsylvania
- Standards: Academic Standards
- Subject: Science and Technology and Engineering
- Year: 2009
- Grade: 12

Standards:
- Biological Sciences
- Organisms and Cells
- Common Characteristics of Life
Questions?

- Digital Social Studies and Science units
- Contains 140 titles (MARC records available for download)
- For children grades 3 through 6
- Unlimited, simultaneous access
- Promotes the instruction and development of 21st Century information literacy skills
- Built-in lesson plans and project ideas
- Desktop icon and webpage buttons are available for easy access
TrueFLIX Units

Social Studies Units

Science Units

Titles within a unit

Easy navigation to a different unit
Choosing a Book

Watch It
Read It

Flipbooks contain title page information just as a print book.

Table of Contents

Interactive Table of Contents
Read Along

- Optional Read Along
- Word-by-word highlighting

Built-in Dictionary

Hover over a highlighted word to show definition.
Glossary and Index

- Highlighted words in text are included in glossary
- Bold page numbers in Index indicate an illustration

Other Features

- True Statistics
- Places to Visit
- About the Author
- Explore More
- Project Idea
- Show What You Know
- Word Match
- Lesson Plans
- Curriculum Correlations
- Web Links
Explore More Feature

Curate list of age-appropriate online resources:
- Scholastic GO articles
- Profiles
- Primary sources
- Interviews
- Current Events
- Charts and tables
- And more!

Project Ideas

- Reports
- Experiments
- Letters and blogs
- Interviews
- Posters
Resources and Tools

Click on Resources and Tools link to access additional features:

- Browse All
- Web Links
- Resources

Lesson Plans

Extreme Science Careers

Content Area(s): Science
Grades: 6-8

Time
• Introduce topic: one 50-minute class period
• Classroom Activity: small group, one 60-minute class period
• Project: 2-3 weeks
• Lab: 60-90 minutes

Materials
• TrueFlix 
• Extreme Science Careers
• Computers with internet access
• Projector or whiteboard

Learning Objectives

Students will:
• Watch a video about extreme science careers.
• Learn new vocabulary.
• Build knowledge by completing a small-group activity based on the flipbook.
• Complete a project by creating and role-playing a hypothetical interview with a scientist whose career is in an extreme science.
• Discuss and answer extension questions.

I. Introduce the Topic

Tell students that they will be learning about extreme science careers. Explain that they will first watch a video about extreme science careers. They will also provide vocabulary before they read the TrueFlix Extreme Science Careers.

Watch the Video

Show the video “Extreme Science Careers.” When finished, ask students to describe in their own words what the video was about. Discuss with students what they already know about the extreme careers in science. Then have students list what they would like to learn more about.

Preview Vocabulary

Show students the list of vocabulary words and their definitions in the flipbook. Pronounce each word; then help students read them. Have students pronounce unknown words using what they already know about phonics and syllables.

Have students work with partners to read and discuss each definition and use each word in a sentence. Then have the entire class read each word and discuss what vocabulary words they learned today. Then have students turn to the next page and start on the activities.
Browse All

Browse by:
- Title
- Subject
- Category
- Lexile
- ATOS (text complexity)

Can also see if a title is included in Accelerated Reader and Reading Counts

Questions?
EBSCO eBooks

Science-related eBooks
eBook Download Link
eBook Download

Reading eBook in Adobe Digital Editions
Refine Results by Subject

Questions?
Hands-on time!

eCard for using the eResources:
2475 2000 1894 70
(no spaces)

• Browse Science Reference Center for content for an upcoming lesson
• Browse the lesson plans in the Science units in TrueFLIX
• View some of the projects included in TrueFLIX science flipbooks
• Browse the Sciences books available, and refine further by subject