



## AccessScience User Guide

## Overview

The screenshot shows the ACCESS Science website interface. At the top, there are navigation tabs: Home, About, Articles, Biographies, Media, For Faculty, and For Admins. Below the navigation is a search bar with the text "Search AccessScience" and a "Search" button. To the left of the search bar is the McGraw Hill Education logo. Below the search bar is a grid of science disciplines: Agriculture, Forestry & Soils; Anthropology & Archeology; Astronomy & Space Science; Biology & Biomedicine; Botany; Chemistry; Computing & Information Technology; Earth Science; Engineering & Materials; Environmental Science; Food Science & Technology; Health Sciences; Mathematics; Military Science; Navigation; Paleontology; Physics; Psychiatry & Psychology; Science Theory & Philosophy; and Zoology. At the bottom of the grid is a "Browse Articles:" section with a row of letters from A to Z and a hash symbol (#).

- 8500+ articles and Research Reviews encompassing the *McGraw-Hill Encyclopedia of Science & Technology* and the *McGraw-Hill Yearbook of Science & Technology*
- 115,000+ definitions from the *McGraw-Hill Dictionary of Scientific and Technical Terms*
- Nearly 3,000 biographies of well-known scientific figures
- 17,000+ downloadable images and animations
- Curriculum maps tied to core science and engineering courses

# Search & Browse

## Universal Search Engine- Basic Search

**Search AccessScience**
Advanced Search ?

I'm looking for...

Search ➤

Agriculture, Forestry & Soils

Chemistry

Food Science & Technology

Paleontology

Anthropology & Archeology

Computing & Information

Health Sciences

Physics

Astronomy & Space Science

Technology

Mathematics

Psychiatry & Psychology

Biology & Biomedicine

Earth Science

Military Science

Science Theory & Philosophy

Botany

Engineering & Materials

Navigation

Zoology

Environmental Science

Browse Articles:

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z
#

- Instantly search across the entire site with a single query
- Optimized search to support Boolean operators AND, OR, and NOT (e.g., tsunami AND Japan)
- Exact phrase searching using quotation marks (e.g., “global warming”)
- Asterisks to match partial words (e.g., thermo\*)

## Advanced Search

1. Click **ADVANCED SEARCH** above the search bar

Search AccessScience Advanced Search ?

I'm looking for... Search >

2. Enter keywords or phrases into the text boxes

Search for:

With this author:

But exclude:

3. Refine your results by topic or content type

**Search within...**

Topic(s)

Content type(s)  Article  
 Biography  
 Briefing

## Narrow Your Search With Filters

**Refine this search** ▾

**Content Type** ▲

- All Content
- Article
- Research Review
- Image
- News
- Briefing
- Video / Animation
- Image Gallery

**Topic** ▲

- All Topics
- Astronomy & Space Science
- Biology & Biomedicine
- Earth Science
- Engineering & Materials
- Environmental Science
- Health Sciences
- Navigation
- Paleontology

### tsunami

54 results

*Definition*

**Tsunami**

A set of ocean waves caused by any large, abrupt disturbance of the sea surface.

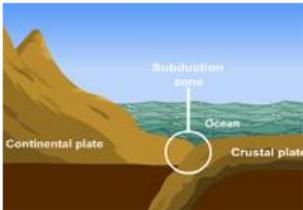
*Article* + SAVE

**Tsunami**

A set of ocean waves caused by any large, abrupt disturbance of the sea surface. If the disturbance is close to the coastline, a local tsunami can demolish coastal communities within minutes. A very large disturbance can cause local devastation and d...

*Video / Animation* + SAVE

**Tsunami**



The diagram illustrates a subduction zone where a continental plate (left) and a crustal plate (right) meet at an ocean trench. A subduction zone is labeled with an arrow pointing to the trench. The ocean is also labeled.

## Browse From the Homepage

The screenshot shows the top navigation bar with links: Home, About, Articles, Biographies, Media, For Faculty, and For Admins. Below the navigation is a search bar titled "Search AccessScience" with a search input field containing "I'm looking for...", a "Search" button, and a link to "Advanced Search?". A red box highlights a grid of science topics: Agriculture, Forestry & Soils; Anthropology & Archeology; Astronomy & Space Science; Biology & Biomedicine; Botany; Chemistry; Computing & Information Technology; Earth Science; Engineering & Materials; Environmental Science; Food Science & Technology; Health Sciences; Mathematics; Military Science; Navigation; Paleontology; Physics; Psychiatry & Psychology; Science Theory & Philosophy; and Zoology. Below the topics is a "Browse Articles:" section with an alphabetical index from A to Z and a hash symbol. A callout box on the left points to the topics grid, and another callout box at the bottom points to the alphabetical index.

➤ Browse by specific Topic

➤ Browse an alphabetical list of articles by topic

## Browse Articles

The screenshot shows the AccessScience website interface. At the top, there is a navigation bar with tabs for Home, About, **Articles**, Biographies, Media, For Faculty, and For Admins. Below this is a search bar with the text "I'm looking for..." and a "Search" button. To the right of the search bar is a "Browse Articles" link and a "Select Topic" dropdown menu. Below the search bar, the breadcrumb "AccessScience > Articles > A" is visible. The main heading is "Articles". Underneath, there are two tabs: **Articles A-Z** and "Articles by Topic". Below these tabs is a horizontal navigation bar with letters A through Z and a hash symbol, with the letter 'A' highlighted. To the right of this bar is a list of article titles starting with 'A', such as "A15 phases", "Aardvark", "Abaca", "Abacus", "ABC lipid transporters", "Abdomen", "Aberration (optics)", "Aberration of light", "Abrasive", "Abscisic acid", "Abscission", "Absolute zero", "Absorbable orthopedic implants", and "Absorption". On the left side of the article list, there is a large red square with a white letter 'A' and a vertical list of sub-sections: "A15 - Adap", "Adap - Airc", "Airc - Ambi", and "Ambi - Anim".

1. Select the **ARTICLES** tab from the main navigation
2. Select **ARTICLES A-Z**

## Browse Articles by Topic

Home About **Articles** Biographies Media For Faculty For Admins

Search AccessScience [Advanced Search ?](#) **Browse Articles**

I'm looking for...

AccessScience > Articles > Earth Science > Earth science - general

**Articles by Topic**

Topic: **Earth Science**

Subtopic: **Earth science - general**

Subtopics:

- Earth science - general**
- Geochemistry
- Geology and geodesy
- Geophysics
- Hydrology and glaciology

Earth - [Article]  
 Earth sciences - [Article]  
 Environmental geology - [Article]  
 Geology - [Article]  
 Geomorphology - [Article]  
 Hyperspectral remote sensing (mapping) - [Research Review]  
 Landslide detection and modeling - [Briefing]  
 Remote sensing - [Article]  
 Supercontinent - [Article]  
 Topographic surveying and mapping - [Article]

my ACCESS Science  
 Save articles, images, searches and more!

**Trending in this Topic**

- Argillaceous rocks
- Contact aureole
- Topographic surveying and mapping
- Seamount and guyot
- Blueschist

[Back to Top](#)

1. Select the **ARTICLES** tab
2. Choose **ARTICLES BY TOPIC** and select the appropriate topic from the left hand navigation

## Browse Articles by Topic (continued)

The screenshot shows the AccessScience website interface. At the top, there is a navigation menu with tabs: Home, About, **Articles**, Biographies, Media, For Faculty, and For Admins. Below the menu is a search bar with the text "I'm looking for..." and a "Search" button. To the right of the search bar is a "Browse Articles" link. Below the search bar, there is a breadcrumb trail: "AccessScience > Articles > Agriculture, Forestry & Soils > Agriculture, forestry, and soils - general". The main heading is "Articles". Below this, there are two tabs: "Articles A-Z" and **Articles by Topic**. Under "Articles by Topic", there is a red banner with the text "Topic: Agriculture, Forestry & Soils". Below the banner, there is a "Select Topic" dropdown menu with a list of subtopics: "Agriculture, forestry, and soils - general", "Animal husbandry", and "Farming". The "Agriculture, forestry, and soils - general" subtopic is selected. To the right of the dropdown, there is a "Subtopic:" section with a list of subtopics: "Agribiotechnology - [Research Review]", "Agricultural aircraft - [Article]", "Agricultural chemistry - [Article]", "Agricultural engineering - [Article]", "Agricultural machinery - [Article]", "Agricultural meteorology - [Article]", "Agriculture - [Article]", and "Agroecosystem - [Article]". On the right side of the page, there is a "Trending in this Topic" section with a list of trending topics: "Genetically modified crops", "Soil mechanics", "Agricultural science (animal)", "Soil fertility", and "Cacao".

1. Select the **ARTICLES** tab
2. Select **ARTICLES BY TOPIC** and choose the appropriate subtopic from the list on the left hand navigation

## Browse Biographies by Name

Home About Articles **Biographies** Media For Faculty For Admins

Search AccessScience [Advanced Search ?](#) [Browse Articles](#)

I'm looking for...

AccessScience > Biographies > A

**Biographies**

**Biographies A-Z** Biographies by Topic

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Save articles, images, searches and more!

**A**

Aalto, Alvar (Hugo Alvar Henrik) (1898–1976)  
 Abbe, Ernst (1840–1905)  
 Abel, Neils Henrik (1802–1829)  
 Abercrombie, (Leslie) Patrick (1879–1957)  
 Abetti, Giorgio (1862–1982)  
 Abrikosov, Alexei Alexeyevich (1928– )  
 Ackerman, James S(loss) (1919– )  
 Ackerman, Nathan W(ard) (1909–1971)  
 Adam (architects) (Adam)  
 Adams, John Couch (1819–1892)  
 Adams, Robert McC(ormick) (1926– )  
 Adams, Walter Sydney (1876–1956)  
 Addams, Jane (1860–1935)  
 Addison, Thomas (1793–1860)  
 Adleman, Leonard (1945– )  
 Adler, Alfred (1870–1937)  
 Adler, Dankmar (1844–1900)  
 Adrian, Edgar Douglas (1889–1977)  
 Agassiz, (Jean) Louis Rodolphe (1807–1873)  
 Agnesi, Maria Gaetana (1718–1799)  
 Agnon, Shmuel Yosef (1888–1970)  
 Agre, Peter (1949– )

**Nobel Prize Winners**  
 This world-renowned prize recognizes outstanding contributions.  
 View winners in:  
 Physics  
 Chemistry  
 Physiology or Medicine  
 Economic Sciences  
 Literature  
 Peace

**Fields Medal Winners**  
 Awarded to young mathematicians, the Fields Medal is the world's most prestigious mathematics prize.  
 View Fields Medal Winners

1. Select the  **BIOGRAPHIES**  tab
  2. Choose  **BIOGRAPHIES A-Z**  then browse from the list of names
- \*The  icon indicates a video biography

## Browse Biographies by Topic

The screenshot shows the AccessScience website interface. At the top, there is a navigation bar with tabs: Home, About, Articles, **Biographies**, Media, For Faculty, and For Admins. Below this is a search bar with the text "Search AccessScience" and a "Browse Articles" link. A search input field contains "I'm looking for..." and a "Search" button. To the right of the search bar is a "Select Topic" dropdown menu. Below the search bar, the breadcrumb path "AccessScience > Biographies > Agriculture, Forestry & Soils" is visible. The main heading is "Biographies". Below this, there are two sub-tabs: "Biographies A-Z" and **Biographies by Topic**. A red banner below the sub-tabs says "Topic: Agriculture, Forestry & Soils". Below the banner, a "Select Topic" dropdown menu is open, showing a list of topics. The selected topic is "Agriculture, Forestry & Soils". The list of topics includes: Agriculture, Forestry & Soils; Anthropology & Archeology; Astronomy & Space Science; Biology & Biomedicine; Botany; Chemistry; Computing & Information Technology; Earth Science; Engineering & Materials; Environmental Science; Food Science & Technology; Health Sciences; Mathematics. To the right of the dropdown menu, a list of biographies is visible, including: Bell, Patrick - [Biography]; Bosch, Carl - [Biography]; Emma Lucy - [Biography]; George Washington - [Biography]; Mary Agnes - [Biography]; Nicolas-Joseph - [Biography]; Alice Catherine - [Biography]; on, Harry George - [Biography]; Obed - [Biography]; mick, Cyrus Hall - [Biography]; Paul Hermann - [Biography]; Arthur George - [Biography]; thro - [Biography]; y, Eli - [Biography]. At the bottom right of the page, there is a "Back to Top" button.

1. Select the **BIOGRAPHIES** tab
2. Select **BIOGRAPHIES BY TOPIC**
3. Choose **SELECT TOPIC** to view the dropdown menu

## Browse Media: Videos & Animations

The screenshot shows the ACCESS Science website interface. At the top, there is a navigation bar with tabs: Home, About, Articles, Biographies, **Media** (highlighted with a red box), For Faculty, and For Admins. Below the navigation bar is a search area with the text "Search AccessScience" and a search box containing "I'm looking for...". To the right of the search box is a "Search" button with a red arrow and a "Browse Articles" link. Below the search area is a breadcrumb trail: "AccessScience > Media > Video / Animation > Astronomy & Space Science". The main content area has a blue header with the word "Media" and two sub-tabs: **Videos & Animations** (highlighted with a red box) and "Image Galleries". Below the sub-tabs is a red banner with the text "Topic: Astronomy & Space Science". At the bottom, there is a "Select Topic" dropdown menu (highlighted with a red box) that is open, showing a list of topics including "Astronomy & Space Science", "Biology & Biomedicine", "Botany", "Chemistry", "Computing & Information Technology", "Earth Science", "Engineering & Materials", and "Environmental Science".

1. Select the **MEDIA** tab

2. Select **VIDEOS AND ANIMATIONS**

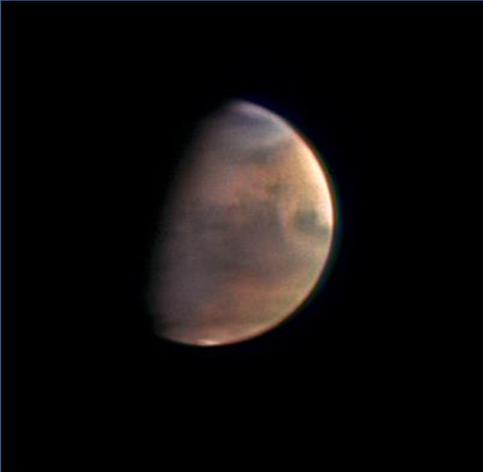
3. Choose **SELECT TOPIC** to view the dropdown menu

## Browse Media: Image Galleries

The screenshot shows the AccessScience website interface. At the top, there is a navigation menu with tabs: Home, About, Articles, Biographies, **Media** (highlighted with a red box), For Faculty, and For Admins. Below the navigation is a search bar with the text "Search AccessScience" and a search button. To the right of the search bar is a "Browse Articles" section with a "Select Topic" dropdown menu. Below the search bar, the breadcrumb path "AccessScience > Media > Image Gallery" is visible. The main heading is "Image Galleries". Below this heading, there are two tabs: "Videos & Animations" and **Image Galleries** (highlighted with a red box). Under the "Image Galleries" tab, there is a section titled "A Collection of Topics That Might Interest You" which displays three image thumbnails with captions: "The 1903 Wright Flyer and Beyond", "Cellular Mitosis", and "Developing the Flyer".

1. Select the **MEDIA** tab
2. Select **IMAGE GALLERIES**, then select the set of images you wish to view

## Browse Media: Image Galleries (continued)



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>

### 1. Mars Express approach

This picture was taken on December 1, 2003, from the European Space Agency's *Mars Express* spacecraft by the High Resolution Stereo Camera (HRSC). It shows planet Mars as seen from a distance of about 5.5 million kilometers (3.4 million miles). Due to the location of the spacecraft, the planet is illuminated in a way that could never be seen from Earth. The Sun shines on part of the western hemisphere, while more than a third of the planet lies in darkness. The dark features at the top are part of the northern lowlands of Mars, where oceans may have existed thousands of millions of years ago. (Image: ESA/DLR/FU Berlin (G. Neukum))

[Download PowerPoint file of these images >](#)

➤ Once selected, image gallery collections can be downloaded to a PowerPoint presentation

# Personal Account



- A My AccessScience personal account allows you to save articles and searches so you can easily refer to them later. You can also save images or image collections to your personal account. A personal account is free to all users at a subscribing institution, and it only takes a few seconds to create.

## Create a Personal Account

The screenshot shows the AccessScience homepage with a navigation menu at the top: Home, About, Articles, Biographies, Media, For Faculty, and For Admins. A search bar is prominently displayed with the text "Search AccessScience" and "I'm looking for...". Below the search bar is a list of subject categories including Agriculture, Forestry & Soils; Anthropology & Archeology; Astronomy & Space Science; Biology & Biomedicine; Botany; Chemistry; Computing & Information Technology; Earth Science; Engineering & Materials; Environmental Science; Food Science; Health Science; Mathematics; Military Science; and Navigation. A "Browse Articles" section lists letters A through N. A callout box with a red border and a blue arrow points to the "my ACCESS Science" link, which is highlighted with a red box. Below the callout, the "my ACCESS Science" logo is shown with the tagline "Save articles, images, searches and more!". The "Explore" section features two article thumbnails: "Switchgrass to ethanol: How engineered microbes are making biofuel" and "Planck mission: A satellite designed to investigate cosmic microwave background radiation". A "Trending on AccessScience" section lists topics such as "Antigen-antibody reaction", "Civil engineering", "Dispersal versus vicariance", "D'Alembert's principle", and "Absorption of electromagnetic".

➤ To create a new account, click on the **My AccessScience** link on the right hand side of the homepage

## Create a Personal Account (continued)

my ACCESS Science

### Sign In

Email  
Email

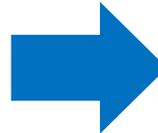
Password  
Password

remember me [Forgot your password?](#)

**Sign In**

Don't have a My Access Science account?

**Register to** save searches and more.



my ACCESS Science

### Register

First name  
First name

Last name  
Last name

Email  
Email

Password  
Password

Confirm password  
Confirm password

I accept the [terms and conditions](#)

**Register**

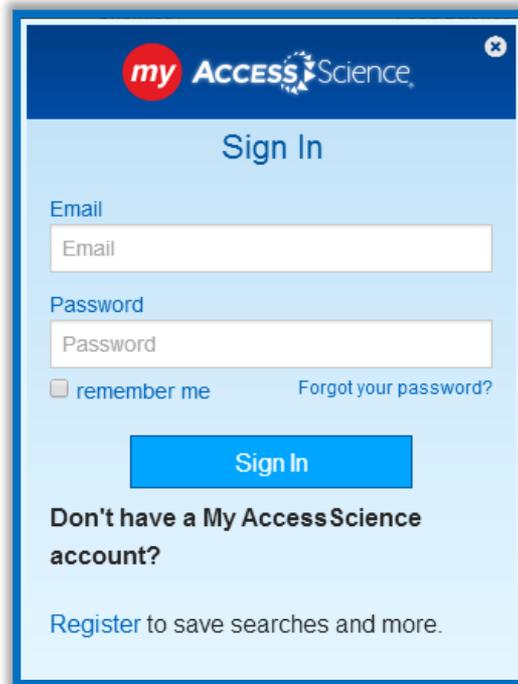
**Cancel**

Already have a My Access Science account? [Sign In](#)

1. Select **REGISTER** to create a new account
2. Fill in the required information in the dialogue box and click on **REGISTER**

## Sign Into Your Personal Account

1. Click on the **My Access Science** button on the homepage
2. Enter your email address and password and click **SIGN IN**



## Sign Into Your Personal Account (continued)

The screenshot displays the AccessScience homepage with a user logged in. The navigation bar includes Home, About, Articles, Biographies, Media, For Faculty, and For Admins. A search bar is prominently featured with the text "Search AccessScience" and "I'm looking for...". Below the search bar, a grid of science disciplines is listed, including Agriculture, Forestry & Soils; Anthropology & Archeology; Astronomy & Space Science; Biology & Biomedicine; Botany; Chemistry; Computing & Information Technology; Earth Science; Engineering & Materials; Environmental Science; Food Science & Technology; Health Sciences; Mathematics; Military Science; Navigation; Paleontology; Physics; Psychiatry & Psychology; Science Theory & Philosophy; and Zoology. A "Browse Articles" section shows a grid of letters from A to Z. The "Explore" section features two images: a field of green grass and a colorful nebula. On the right, a "my ACCESS Science" sidebar displays the user's name "Kalle Covert", affiliation "McGraw-Hill Education", "Saved items 2", and "Saved searches 1".

- Once you are logged into your account, your saved items and searches will be accessible from the AccessScience homepage

# Save Searches and Images

## Save a Search to Your Personal Account

The screenshot shows the AccessScience website interface. At the top, there is a navigation menu with links for Home, About, Articles, Biographies, Media, For Faculty, and For Admins. Below the navigation is a search bar containing the text 'tsunami' and a 'Search' button. To the right of the search bar is a 'Browse Articles' dropdown menu. Below the search bar, the page displays 'Search Results' for 'tsunami' with 54 results. A 'Save search' button is circled in red. The results include a definition of a tsunami: 'A set of ocean waves caused by any large, abrupt disturbance of the sea surface.'

1. Enter a search term into the search bar
2. From the search results page, select **SAVE SEARCH**. The query will automatically be added to your My AccessScience account

## Save an Article to Your Personal Account

The screenshot shows the AccessScience website interface. At the top, there is a navigation menu with links for Home, About, Articles, Biographies, Media, For Faculty, and For Admins. Below the menu is a search bar with the text "Search AccessScience" and a search button. To the right of the search bar is a "Browse Articles" section with a "Select Topic" dropdown menu. The main content area displays the article title "Tsunami" and its author information: "Article by: Bernard, Eddie N. National Oceanic and Atmospheric Administration, Pacific Marine Environmental Laboratory, Seattle, Washington." On the right side of the article, there is a vertical toolbar with several action buttons: "+ SAVE", "CITE", "EMAIL", "PRINT", "SHARE", and "LINK". The "+ SAVE" button is highlighted with a red box. Below the article content, there is a "Content" section with a list of links: "Generation", "Wave propagation", "Forecasting impacts", "Reduction of impact", "Bibliography", and "Additional Readings". On the far right, there is a sidebar with a section titled "Sedimentology of tsunami deposits" and a sub-section titled "Sumatra-Andaman earthquake On December 26, 2004, a 1300-km (800-mi) length..."

➤ From the Article page, select **SAVE** from the list of available actions on the right hand toolbar

# Curriculum Maps

## Curriculum Maps

The screenshot shows the AccessScience website interface. At the top, there is a navigation bar with tabs: Home, About, Articles, Biographies, Media, **For Faculty** (highlighted with a red box), and For Admins. Below the navigation bar is a search area with the text "Search AccessScience" and a search input field containing "I'm looking for...". To the right of the search field is a "Search" button with a red arrow. Further right is a "Browse Articles" section with a "Select Topic" dropdown menu. Below the search and navigation area is a large banner image featuring a microscope, a globe, and a mouse. A red box highlights the "For Faculty" tab in the navigation bar. A white callout box with a red border and a right-pointing arrow contains the text: "From the **FOR FACULTY** tab, select the desired Curriculum Map from the list on the right hand side of the page". Below the banner, there is a red bar with the text "AccessScience!". To the left of the red bar, there is a text block: "Our Curriculum Maps guide faculty to highly relevant and engaging content from throughout AccessScience for use in your course. These maps have been designed by leading science and engineering faculty, who have carefully selected useful content, such as tables, graphs, diagrams, photos, animations, and videos, and then mapped that content to the standard topics taught within each course." Below this text block, there is another text block: "You can easily incorporate this content into your curriculum by using our 'Copy Link' functionality to paste a direct link into your school's learning management system." To the right of the text blocks, there is a vertical list of Curriculum Maps: "Curriculum Maps:", "Astronomy", "Biology", "Cell Biology", "Chemistry", "Computing: Databases", and "Discrete Mathematics". The "Astronomy" option is highlighted with a blue background and a white arrow pointing to it. The entire list of Curriculum Maps is enclosed in a red box.

➤ From the **FOR FACULTY** tab, select the desired Curriculum Map from the list on the right hand side of the page

## Curriculum Maps

AccessScience > For Faculty > Curriculum Maps

### Curriculum Map

**Astronomy**

**Author:**  
Martin Hackworth, Senior Lecturer, Idaho State University, Pocatello, Idaho

**Course Topics**

- ▶ Historical Astronomy
- ▶ Celestial Mechanics
- ▶ The Night Sky
- ▶ The Earth-Moon System
- ▶ The Solar System
- ▶ The Sun
- ▶ Stars
- ▶ Galaxies
- ▶ Cosmology

**Historical Astronomy**

Asset	Description
Diagram	<a href="#">This diagram, from the article <i>Archeoastronomy</i>, shows how some features of Stonehenge were probably used to keep track of celestial events.</a>
Diagram	<a href="#">This illustration, from the article <i>Retrograde motion</i>, shows the Copernican, heliocentric view (as opposed to the geocentric view) of retrograde motion.</a>
Diagram	<a href="#">This illustration, also from the article <i>Retrograde motion</i>, shows the earlier, geocentric view of retrograde motion.</a>
Biography	<a href="#">This biography summarizes the contributions of Ptolemy, noted for his compendium of astronomical knowledge circa the 2nd Century, the <i>Almagest</i>.</a>
Biography	<a href="#">This biography summarizes the contributions of Nicolaus Copernicus, the chief progenitor of the heliocentric view of the solar system in 16th-century Europe.</a>

Course Name →

Map Author →

Course Topics →

Individual Topic →

Relevant  
AccessScience  
Content →

# Questions?

Please email [userservices@mhprofessional.com](mailto:userservices@mhprofessional.com)