



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 tabs 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 Technology

Health Sciences

Physics

Astronomy & Space Science

Earth Science

Mathematics

Psychiatry & Psychology

Biology & Biomedicine

Military Science

Science Theory & Philosophy

Botany

Engineering & Materials

Navigation

Zoology

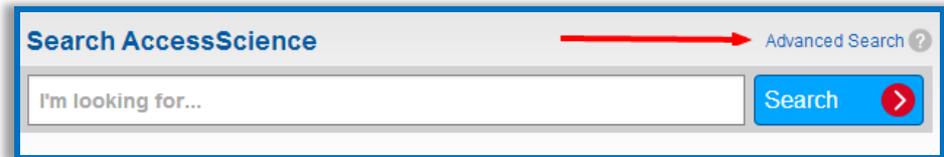
Environmental Science

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...

2. Enter keywords or phrases into the text boxes

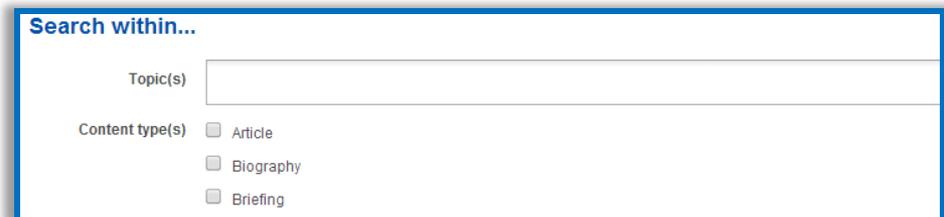


Search for:

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.

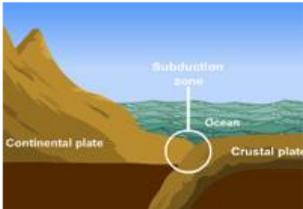
Article + SAVE

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 above the ocean surface. A white circle highlights the area where the plates meet underwater.

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 labeled "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 16 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 grid is a "Browse Articles:" section with a row of buttons for each letter of the alphabet (A-Z) and a hash symbol (#). A callout box on the left points to the topic grid, and another callout box at the bottom points to the alphabetical list.

➤ 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 the navigation bar is a search area with a search bar containing the placeholder text 'I'm looking for...', a 'Search' button with a red arrow, and a 'Browse Articles' link. A dropdown menu labeled 'Select Topic' is also visible. Below the search area, the breadcrumb 'AccessScience > Articles > A' is shown. The main heading is 'Articles'. Underneath, there are two tabs: 'Articles A-Z' (highlighted with a red box) and 'Articles by Topic'. Below these tabs is a horizontal navigation bar with letters A through Z and a '#' symbol, with the letter 'A' highlighted in a red box. The main content area displays a large red square with a white letter 'A' on the left. To the right of the 'A' are several article titles, each followed by '- [Article]' or '- [Research Review]'. The titles include: 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.

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]

Back to Top

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

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 ACCESS Science website interface. At the top, there is a navigation menu with tabs: Home, About, **Articles** (highlighted with a red box), 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, the breadcrumb trail reads: "AccessScience > Articles > Agriculture, Forestry & Soils > Agriculture, forestry, and soils - general". The main heading is "Articles". Below this, there are two sub-navigation tabs: "Articles A-Z" and **Articles by Topic** (highlighted with a red box). 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 (highlighted with a red box) showing a list of subtopics: "Agriculture, forestry, and soils - general" (highlighted with a blue bar), "Animal husbandry", and "Farming". To the right of the dropdown, the "Subtopic:" is "Agriculture, forestry, and soils - general", followed by a list of sub-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 items: "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 (1882–1982)
 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

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

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

I'm looking for...

AccessScience > Biographies > Agriculture, Forestry & Soils

Biographies

Biographies A-Z **Biographies by Topic**

Topic:
Agriculture, Forestry & Soils

Select Topic

- 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

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]
nick, Cyrus Hall - [Biography]
Paul Hermann - [Biography]
Arthur George - [Biography]
thro - [Biography]
y, Eli - [Biography]

[Back to Top](#)

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 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 area, the breadcrumb path reads "AccessScience > Media > Video / Animation > Astronomy & Space Science". The main heading is "Media", with two sub-tabs: **Videos & Animations** (highlighted with a red box) and "Image Galleries". Below the sub-tabs, there is a red banner with the text "Topic: Astronomy & Space Science". At the bottom, a "Select Topic" dropdown menu is open, showing a list of science topics. The "Astronomy & Space Science" option is highlighted with a red box. The dropdown menu lists the following topics: Astronomy & Space Science, Biology & Biomedicine, Botany, Chemistry, Computing & Information Technology, Earth Science, Engineering & Materials, and Environmental Science. To the right of the dropdown menu, a list of video/animation titles is visible, including "Come...", "Earth's Orbit and Seasons", "Evolution of the Solar System", "Newton's First Law", "Newton's Second Law", "Newton's Third Law", "Phases of the Moon", and "Total Solar Eclipse Aberration".

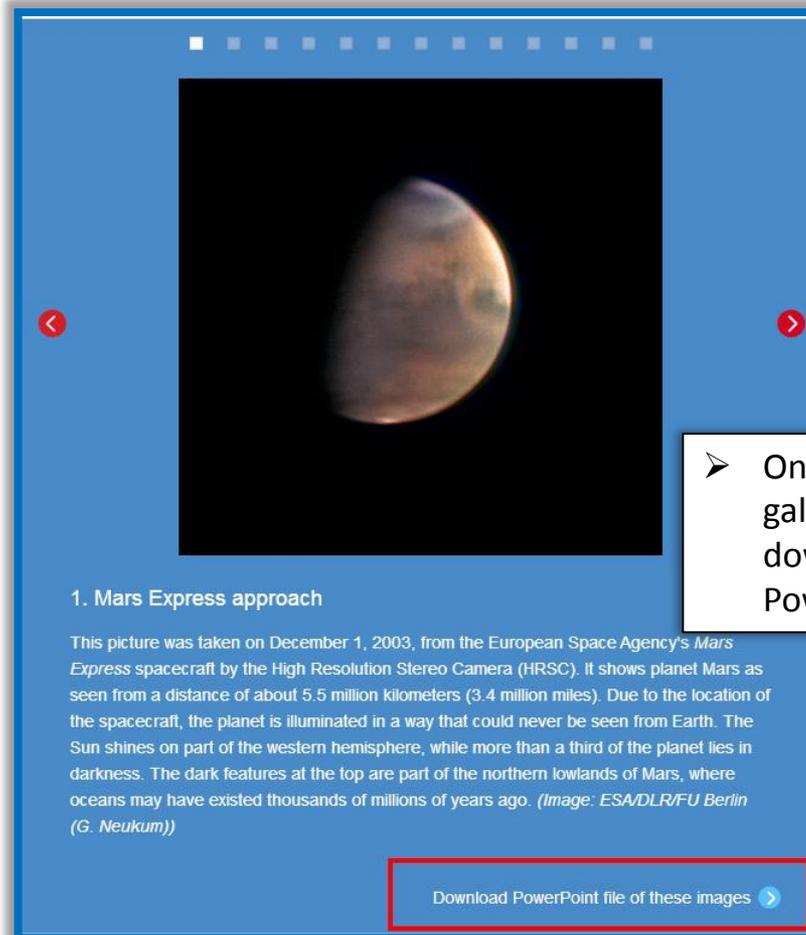
1. Select the **MEDIA** tab
2. Select **VIDEOS AND ANIMATIONS**
3. Choose **SELECT TOPIC** to view the dropdown menu

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). Underneath, 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)



The screenshot shows a blue-bordered gallery window. At the top, there is a row of small square thumbnails, with the first one being white and the others grey. Below this is a large central image of Mars, showing a crescent shape against a black background. On either side of the image are red circular buttons with white arrows pointing left and right. Below the image, the text reads: "1. Mars Express approach". Underneath that is a paragraph of descriptive text. At the bottom right of the gallery, there is a red-bordered button with the text "Download PowerPoint file of these images" and a blue arrow icon.

➤ 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 grid of science 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 from A to N. On the left, there is a "McGraw Hill Education" logo and a "my ACCESS Science" logo with the text "stays with you on the go!". A callout box with a red border and a blue arrow points to the "my ACCESS Science" logo, containing the text: "To create a new account, click on the **My AccessScience** link on the right hand side of the homepage". Below the search bar is an "Explore" section with two featured articles: "Switchgrass to ethanol: How engineered microbes are making biofuel" and "Planck mission: A satellite designed to investigate cosmic microwave background radiation". On the right, there is a "Trending on AccessScience" section listing topics like "Antigen-antibody reaction", "Civil engineering", "Dispersal versus vicariance", "D'Alembert's principle", and "Absorption of electromagnetic".

Create a Personal Account (continued)

my ACCESS Science

Sign In

Email
Email

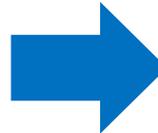
Password
Password

remember me [Forgot your password?](#)

Sign In

Don't have a My Access Science account?

Register to have 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**

A screenshot of the 'my ACCESS Science' sign-in page. The page has a blue header with the 'my ACCESS Science' logo and a close button (X) in the top right. Below the header, the title 'Sign In' is centered. There are two input fields: 'Email' and 'Password', each with a white text box and a label above it. Below the password field, there is a checkbox labeled 'remember me' and a link 'Forgot your password?'. A blue 'Sign In' button is centered below the form. At the bottom, there is a section titled 'Don't have a My Access Science account?' with a link 'Register to save searches and more.'

Sign Into Your Personal Account (continued)

The screenshot displays the AccessScience homepage with a user's personal account profile highlighted in a red box. The profile includes the user's name, affiliation, and statistics on saved items and searches.

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

Search AccessScience Advanced Search ?

I'm looking for... Search >

Agriculture, Forestry & Soils	Chemistry	Food Science & Technology	Paleontology
Anthropology & Archeology	Computing & Information Technology	Health Sciences	Physics
Astronomy & Space Science	Earth Science	Mathematics	Psychiatry & Psychology
Biology & Biomedicine	Engineering & Materials	Military Science	Science Theory & Philosophy
Botany	Environmental Science	Navigation	Zoology

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 #

Explore

my ACCESS Science My Account Sign Out

Kalle Covert
McGraw-Hill Education

Saved items 2
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. The main content area displays 'Search Results' for 'tsunami' with 54 results. A 'Save search' button is circled in red. The results include a definition of 'Tsunami' as 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 labeled 'Search AccessScience' with a search button and a 'Browse Articles' dropdown menu. The main content area displays the article title 'Tsunami' and the author 'Bernard, Eddie N.' from the National Oceanic and Atmospheric Administration. A right-hand toolbar contains 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. A sidebar on the right contains a snippet of the article text: 'Sedimentology of tsunami deposits On December 26, 2004, an earthquake estimated at... 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. 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

Course Name → Astronomy

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

Course Topics → **Course Topics**

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

Individual Topic → **Historical Astronomy**

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

Relevant AccessScience Content →

Questions?

Please email userservices@mhprofessional.com