

# Sciences: finding information



INTO MANCHESTER

**When you are doing your coursework at INTO Manchester, you should make use of QUALITY sources, rather than just using *Wikipedia***

**This handout will help!**

**If you are struggling to find what you need - ask the Learning Centre staff. They like to help!**

**Learning Centre Guide 22**

**Website: <http://intolearningcentre.co.uk>**

**E-mail: [manchester.lrc@intoglobal.com](mailto:manchester.lrc@intoglobal.com)**

**Telephone: 0161 631 12 22**



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## Online Resources

The Learning Centre has special databases to help you find **QUALITY** material - most of these databases are **NOT** available freely via the web.

**To log in to these databases from home, you need your OPEN ATHENS username and password. You need to COME INTO THE LEARNING CENTRE to get these.**

Once you have your OpenAthens details, go to

<http://intolearningcentre.co.uk/online-resources/>

click on the **OpenAthens** logo



and log in

**You can use the following databases from INTO Manchester or at home:**

- **Catalyst** Packed with interesting articles on cutting-edge science, interviews and new research written by leading academics. **Also on the web at** <https://www.stem.org.uk/catalyst>

- **The Reviews (*was called Philip Allan Databases*)** Online access to current and past copies of *Biological Sciences Review*, *Chemistry Review*, and *Physics Review*. Great way of keeping up-to-date with current issues. Details of how to use this database efficiently are available in a range of simple guides (***Simple guides 14-16***)

Newspapers are extremely useful for current scientific popular information,

- **European Newsstream**  
Covers local and regional newspapers throughout Europe; includes *The Guardian*, *Independent*, *Times* and *Financial Times*. Great for up-to-date scientific current affairs information. Details on how to use in ***Simple guide 25***

- **EBSCO Discovery**

For more in-depth research; search over 7,000 academic and business journals Details on how to use in **Guide**

**7a and 7b: using the Ebsco Databases**

**New Scientist** The world's most popular weekly science and technology magazine. Current print copy in Learning Centre library, **archive of older copies available via your Open Athens password-see page 2** Carry out a **Publication Search**



You need your **OPEN ATHENS** details to use the INTO Manchester databases from home. If you do not have one, ask the Learning Centre staff

- **Electronic/ E-Books** Electronic books cover key topics in science- you can use these at INTO Manchester or at home. Search for a full book or across **ALL** the pages in available books, all at the same time, for the topic you are interested in. Electronic books are available via **Ebook Central** and Ebsco via **Ebsco Discovery** **There are separate leaflets on how to use E-Books (Simple Guides 17/18)**
- **Issues Online** Database on social issues; covers topics such as biotechnology, genetic modification and stem cell research. You need a separate password for *Issues Online*: **This is on the screen when you go into Ebsco Discovery** Details on how to use in **Simple guide 19**

**Use Moodle** Your teachers will put valuable material on Moodle, the Virtual Learning Environment, also called MyINTO. This is available via the Learning Centre website at <http://intolearningcentre.co.uk/> **Select Moodle**

**Useful Websites** The internet is full of information resources for you to use for your studies.

***Anyone can (and many do!) set up a website just to fool people/ promote their own point of view, so you need to be careful about which internet sources you use.***

Use search engines such as **Google Scholar** rather than Google itself so you know you will find some “scholarly”/ academic literature. Google Scholar is available at: <http://scholar.google.co.uk/>

## **Useful Websites: Science - General**

- **BBC News Science and the Environment** Latest science and environmental news from the BBC. Important for keeping up-to-date. **Website:** [http://www.bbc.co.uk/news/science\\_and\\_environment/](http://www.bbc.co.uk/news/science_and_environment/)
- **BBC Science and Nature** The BBC has 2 Science and Nature websites, packed with information on a wide range of topics. As well as programme information, you can find articles, games, interactive quizzes and background information on subjects from evolution to the solar system. **NOTE: these websites are no longer being updated but still contain useful information.**  
**Website:** <http://www.bbc.co.uk/science>  
**Website:** <http://www.bbc.co.uk/nature>
- **Catalyst** Packed with interesting articles on cutting-edge science, interviews and new research written by leading academics.  
**Website:** <https://www.stem.org.uk/catalyst>
- **European Newsstream** Covers local and regional newspapers throughout Europe; includes *The Guardian*, *Independent*, *Times* and *Financial Times*. Great for up-to-date information. Details on how to use in **Simple guide 25**. Access with your **Open Athens** details – see page 2
- **The Environment Agency** Organisation that protects and improves the environment in England; useful for environmental perspectives on the latest scientific issues.  
**Website:** <http://www.environment-agency.gov.uk/>

- **Friends of the Earth** Campaigning organisation dealing with Environmental issues around the world. Useful for environmental perspectives on the latest scientific developments.  
**Website:** <http://foe.co.uk>
- **Pearson SciLinks** A site from Pearson's Publishers that covers a range of scientific topics including biology, chemistry and physics. Choose the topic you want to look at and it takes you to further online resources. **NOTE: some of the chemistry links have expired but other science subject links still work**  
**Website:** <http://bit.ly/19NWD6R> (*shortened URL*)
- **Scientific American** Famous American website covering latest issues in science. Great for discovering the latest scientific issues. Mostly behind paywall but have access to three complimentary articles per month **Website:** <http://www.scientificamerican.com>
- **S-Cool: Revision Website** Revision website covering range of subjects including biology, chemistry, mathematics and physics.  
**Website:** <http://www.s-cool.co.uk/>
- **Cafe Scientifique**  
Manchester Meetings where science issues are discussed and debated. Open to anyone. Check website for latest details.  
**Website:** <http://www.cafescientifique.manchester.ac.uk>

## Useful Websites: Biology

- **Bio-Alive** Bio-Alive is a life science online video sharing community, great for watching biology and life science related videos especially on anatomy and physiology.  
**Website:** <http://bio-alive.com/animations/anatomy.htm>

- **Biochemical Society** The education section of the Biochemical Society website offers a range of free resources on key topics in biochemistry. **Website:** <http://www.biochemistry.org/>
- **BioCoach** Site reviewing material on cells, DNA and plant structure. **Website:** <http://bit.ly/2aQvQPn> (*shortened URL*)
- **Cells Alive** Covers cell biology and immunology. Packed full of animations, puzzles and quizzes to make cell biology interesting and exciting. **Website:** <http://www.cellsalive.com>
- **Scitable** A free science library and personal learning tool provided by the Nature Publishing Group, one of the world's leading publisher of science. Currently concentrates on genetics and cell biology. A great site. **Website:** <http://www.nature.com/scitable>
- **Wellcome Trust** Provides high-quality free resources ranging from videos or copies of the *Big Picture* magazine. Looks at different issues- for example, cells, genetics and disease. **Website:** <http://bit.ly/1780hTo> (*shortened URL*)

## Useful Websites: Chemistry

- **WebElements: the periodic table on the web** Tells you everything you've ever wanted to know about the periodic table (and more!). **Website:** <http://www.webelements.com>
- **Royal Society of Chemistry** The RSC is the largest organisation in Europe for advancing the chemical sciences. Website has a section *educationinchemistry* where you can register free for RSC Chemnet

*Chemnet* offers help with your studies, exam revision and a chat facility to talk to others studying chemistry.

**Website:** <http://www.rsc.org/>

**Website:** <https://eic.rsc.org/classroom>

## Useful Websites: Physics

- **HyperPhysics** Hosted by the Department of Physics & Astronomy at Georgia State University. Online tutorials cover a wide range of physics topics, including modern physics and astronomy. Material is organised through extensive concept maps that you have to click through to get to your topic, but worth persevering with. **Website:** <http://bit.ly/13WIIRo> (*shortened URL*)
- **Institute of Physics** Aims to inspire people of all ages about physics. A gateway to best physics places on the web with a database of over 4,000 handpicked physics sites. Has latest physics news as well as a round-up of physics experiments. **Website:** <http://www.physics.org/>

## Books

Your teacher will recommend key books that you should read as part of your studies: most of these should be available in the Learning Centre. To find books you need to search using the **Library Catalogue**.

The catalogue is on the Learning Centre website at

**<https://intolearningcentre.co.uk/>** The Library Catalogue gives you the “Dewey number” of the book. This will help you find it on the library shelf as all books in the Learning Centre are organised in Dewey number order. The Dewey number for Physics is **530**; Chemistry is **540** and Biology is **574/ 612** Details on how to use the catalogue in ***Guide 4 Finding a Book in the Learning Centre***

## Further Research

For more advanced research, use **Subject Gateways** that contain web resources that have been evaluated and quality checked by experts. Try these:

- **CORE (COncecting REpositories)**

Free access to millions of open access research papers.

**Website:** <https://core.ac.uk/>

- **Digital Commons Network**

Brings together free, full-text scholarly articles from hundreds of universities and colleges worldwide.

**Website:** <http://network.bepress.com/>

- **Directory of Open Access Journals**

Gives access to some very useful “peer reviewed” journals for you to use. This means that articles have been checked by fellow experts. Suitable for those carrying out in-depth research.

**Website:** <http://www.doaj.org/>

- **JURN**

Finds content in over 4,000 FREE ‘open access’ e-journals in the arts and humanities & sciences. Provides a useful list of the journals included.

**Website:** <http://www.jurn.org/>



**Manchester Central Library has access to many online journals, via its *Access to Research* system. Ask the Learning Centre staff about access to the Central library**