




Centre objectives

- ▶ House the UK's largest accessible collection of STEM teaching and learning resources.
- ▶ Bring together STEM partners with a shared mission to support STEM education, thus supporting the government's STEM cohesion programme.




DIRECT SUPPORT:

- ▶ Physical library
- ▶ eLibrary
- ▶ Communications hub for teachers

INDIRECT SUPPORT:

- ▶ Central location for STEM events
- ▶ STEM Associates facilities
- ▶ Government's STEM Programme

Areas of Centre activity



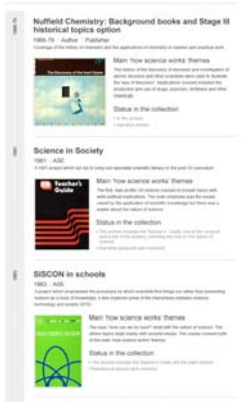

Physical library

- ▶ 11,000+ books
- ▶ 600 software titles
- ▶ 200 DVDs
- ▶ 400 gadgets
- ▶ 90 journals
- ▶ 500 posters





The 'archive'

- ▶ Sustainability
- ▶ Treasure chest
- ▶ Curriculum development for the future



Information on an archive theme with key projects in chronological order

The narrative illustrates where each project influenced / built on other work, and how ideas about teaching STEM subjects have developed with time.

www.nationalstemcentre.org.uk



Collections feature prominently on new homepage

Signposting website

- ▶ National & regional views
- ▶ Helping STEM partners reach teachers & lecturers, and vice versa



www.nationalstemcentre.org.uk/elibrary/

- ▶ Phase One: online resource collections
- ▶ Phase Two: personalised experience for visitors to the eLibrary
- ▶ Phase Three: community functionality

eLibrary – online infrastructure for the STEM education community

A place for teachers and STEM education organisations to collaborate, share ideas and resources, and engage in online professional development.



Phase One: 30 collections for launch on 8 July, 2010

Browse only collections in a major subject area if you prefer

An individual collection...


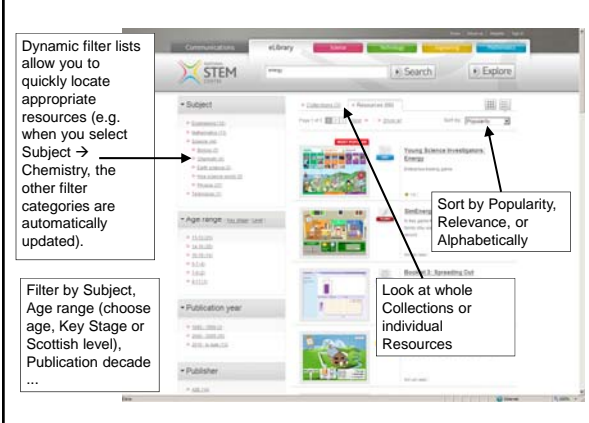
... individual resource...

Review

These videos are a useful tool in helping students develop their scientific knowledge.

- ▶ The eLibrary search engine looks at every piece of text associated with the resource (title, description, and for print materials the whole document).
- ▶ Results are returned by relevance (e.g. Is the search term in the description or title? How often does the search term appear?).

Searching

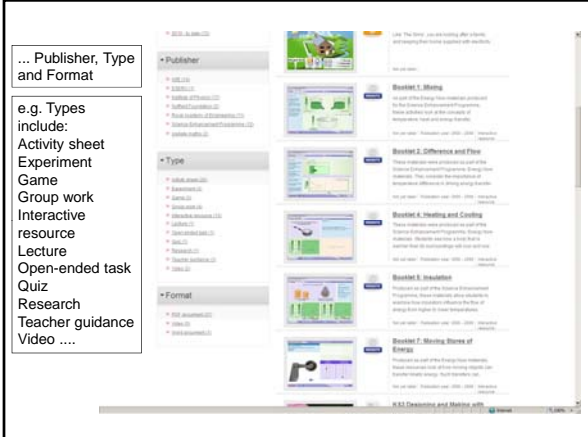



Dynamic filter lists allow you to quickly locate appropriate resources (e.g. when you select Subject -> Chemistry, the other filter categories are automatically updated).

Filter by Subject, Age range (choose age, Key Stage or Scottish level), Publication decade ...

Sort by Popularity, Relevance, or Alphabetically

Look at whole Collections or individual Resources




... Publisher, Type and Format

e.g. Types include:
 Activity sheet
 Experiment Game
 Group work
 Interactive resource
 Lecture
 Open-ended task
 Quiz
 Research
 Teacher guidance
 Video

- ▶ As the eLibrary gets to know you it will recommend resources based on your previous searches, and searches that people with a similar profile have undertaken.
- ▶ You will receive your recommendations through a 'dashboard' when you sign in.
- ▶ The dashboard also remembers what resources you've looked at, and lets you note these – and materials from anywhere on the web – into your favourite lists (e.g. 'my favourite experiments for KS3 chemistry').
- ▶ You can keep your lists private or share them, be put in touch with other teachers with similar lists and so on – to build your own community of practice with technicians that share your interests.

Recommendations




- ▶ A community space to share ideas and resources - collaborate across the UK and internationally.
- ▶ Use open groups to share ideas and resource materials with everyone in the community. Your own resources come into their own.
- ▶ Use closed groups for professional development, for group discussions, one-to-one, sharing resources (print and multimedia), and so on.
- ▶ ... and many other uses driven by the needs of the STEM education community, the real 'owners' of the STEM eLibrary infrastructure.

**Coming soon...
Phase Three**

