What’s on LGfL for Secondary Schools?

2011
What’s in this booklet?

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What’s on LGfL for Secondary Schools?

Premium learning resources, digital collections and projects for e-learning

This booklet illustrates examples of the online teaching and learning resources provided as part of the LGfL education broadband service available to London schools. The booklet is a useful introduction but to be fully informed and make the most of LGfL resources a visit and presentation by an LGfL Curriculum Consultant would be of immense value. Visit www.consultants.lgfl.net to find out more about LGfL Curriculum Consultants.

London Local Authorities and schools working together as the London Grid for Learning (LGfL) have provided an array of e-learning resources which are openly available on-line to all LGfL connected schools at no charge.

The resources or ‘content’ come from three main sources.

1) The LGfL has created, licensed or commissioned a range of premium digital resources focussed on supporting learning and teaching in the Secondary phase.

2) Supported by LGfL, London LAs and teachers have produced online content resources that include the best and latest practice in using a range of software and hardware across the curriculum. These resources are then made available across the region through the LGfL community.

3) The London Grid for Learning is also a member of the National Educational Network, which brings together all the regions of the UK, each with its own unique content – available for all to share, and accessible via the LGfL Content Management System.

A carefully selected panel of practitioners drawn from across the region scrupulously evaluates a wide range of materials and only selects those resources which are assessed as being of the highest standard for use by LGfL connected schools throughout the London region.

Selection by LGfL is widely regarded as an accolade of considerable significance by education content publishers. Schools can therefore be assured that time given to familiarising with these resources is well invested.

Access Rights

In most cases, access is automatic within all schools connected directly to the London Grid for Learning.

Look for the letter in brackets after each title which describes the level of access:

- O means open access; you won’t need a username or password.
- P means this is premium content - access is automatic from within a connected school but you will need your LGfL ‘USO’ username and password for access out of school.
- S means this is a special licence and access is restricted to within school only.

Teachers and pupils at connected schools can access LGfL content anywhere on-line using their LGfL Unified Sign On (USO) username and password. No USO? Visit www.uso.lgfl.net
Where to find the content

- The URL for the London Grid for Learning is www.lgfl.net
- From the home page, select the Content Grid link from the box on the right
- From the Content Grid (see below), choose your Key Stage and subject
- From the Key Stage subject menu, select the content you want to access.

The Content Grid

The Content Grid is simple to use. For example, to access materials for Key Stage 3 Science click on the green arrow on the KS3 row below Science. To access Foundation Stage resources, or resources on the National Education Network, click on the tabs at the top of the table.
Using the LGfL ‘Sign-on’ Software

The London Grid for Learning’s USO ‘sign-on’ software enables every LGfL user to use premium software even when out of school.

Let’s say you wished to access Longmans GCSE Maths from your home:

- As soon as you click on the GCSE Maths item in the KS4 Numeracy menu, you will get this dialogue box

- Type in your LGfL USO username and password and select the ‘Login button’

- If you get this dialogue box, or one like it, select the Yes button

- You are now able to access premium content on LGfL

*NB: This does not apply to British Pathe where the licence allows school-based access only.*
Mathematics

● Skool Maths for KS3 & 4 (O)
A unique resource of learning objects and pathways through the secondary Maths curriculum. Each learning object (or lesson) can be downloaded onto a laptop for use with a whiteboard, or on to a suitable handheld device.

There are additional whiteboard tools developed with the Maths Association and downloadable free from the site.

www.skool.lgfl.net

● Absorb Maths for KS4 (P)
Produced by the award-winning team at Crocodile Clips, this software provides text, online interactive models and tests. An excellent source of interactive models for whiteboards.

You will need your LGfL username and password to access.

www.absorb.lgfl.net

● Longmans GCSE Maths Exam Tutor Online (P)
For all tiers and all boards, this software provides a comprehensive range of example exam papers (with answers).

Next to each question is a tutor icon. Click on the icon to load a Flash demonstration of how to solve the problem and present your answer, with full spoken description from the tutor.

www.gcsemaths.lgfl.net
In collaboration with Intel and The Mathematical Association, the Mathematical Toolkit and Number Line have been designed specifically to support the teaching and learning of mathematics for pupils at Key Stage 3. The tools are now available as fully featured online tools in the LGfL Maths Kit.

www.mathskit.lgfl.net

● Number Line

The Number Line tool offers a dynamic environment in which teachers and pupils can explore numbers and relationships between them. In its simplest use, number lines can be created quickly and easily - the display can be in decimal and/or fractional notation and the numbers can also be hidden. A point on the line can be dragged along the number line and its exact position revealed as a decimal to a chosen number of places. Further points can be positioned on the line and the environment will support pupils to make connections between related points on the line and begin to generalise about relationships using simple algebraic rules.

● Coordinates and Graphing

Coordinate graphs can be easily created on a specified set of axes by a mouse click or a tap on an interactive whiteboard. Where appropriate, graphs of algebraic functions can be superimposed, encouraging pupils' conjectures. Up to five colour-coded functions can be plotted on any set of axes and the table of values are displayed alongside the graphs. Digital still images and video clips can be imported as a background onto which points can be plotted and investigated. Used in this way, real images and videos can be explored and connections made between the shape and the mathematical function that shares that shape.

● 2-D Shapes

This tool allows the teacher or pupil to create 2-D geometric objects such as quadrilaterals, circles, triangles, lines, arcs, ray segments and vectors on a co-ordinate grid of a specified scale. Once plotted, the vertices can be labelled and the internal angles, side lengths, area and perimeter revealed. Shapes can then be translated, rotated, reflected and enlarged on the co-ordinate grid using the transformation features of the tool. Each time a shape is transformed, a ghost of its previous position is left on the screen supporting the investigation of sequences of transformations.
Science

● Sunflower Learning Units (P)

The London Grid for Learning has licensed seven units from Sunflower Learning, the award-winning company which specialises in software for KS3 and 4 Science. The units include 3D simulations to explore, experiments to investigate, assignments and worksheets.

The units on LGfL are:
- Colour
- Sound
- Motors and Generators
- Osmosis
- Predator & Prey
- Simple Circuits
- Data Analyser

www.sunflower.lgfl.net

● Multimedia Science School (P)

LGfL has the following units online:

Physics
- Terminal velocity
- Radioactive penetration

Biology
- Kidney
- Digestive system
- Photosynthesis
- Breathing and respiration

www.mss.lgfl.net

● Skoool Science for Physics, Chemistry and Biology at KS3 and 4 (O)

A unique bank of learning objects, simulations and pathways through the secondary Science curriculum. Some of the learning objects are contained within learning pathways which encourage the user to learn, explore, assess, relate and reflect on ‘Now You Know’.

All of the simulations run in Flash making them fast and robust online resources. Many can be downloaded from Skoool to run as stand-alone applications.

www.skoool.lgfl.net
● Absorb Physics and Chemistry for KS4 (P)

Produced by the award-winning team at Crocodile Clips, this software provides text, online interactive models and tests.

An excellent source of interactive models for whiteboards. This example shows an interactive model for modelling centrifugal force.

You will need your LGfL USO username and password to access this software even in school.

www.absorb.lgfl.net

● MySkoool Science for KS3 & 4 (O)

One of the most popular Science resources provided by LGfL.

Many of the learning objects (or lessons) can be downloaded onto a laptop for use with a whiteboard, or on to a handheld device.

Skoool Science now includes two new collections of downloads. The Physics Investigation Tools at KS3 include Density Investigation, Mirrors, Lenses, Electromagnet, Expansion and Contraction and a Stretching Investigation.

KS4 Thinking Worlds is a learning-based game. It enables teachers and students to create, edit, play and share their own 3D virtual environments to accomplish learning tasks made up of different thinking behaviours. The two units cover Plants and Photosynthesis and Respiration.

www.skoool.lgfl.net
Y7 Listening & Speaking (P)

This resource includes:

- Extensive contributions from journalists on how they listen, ask questions and speak. The journalists include Jon Snow and Krishnan Guru-Murthy. Lots of top tips are given on how to interview people and present a story.
- Analysis of media. How to listen, watch and analyse TV scenes.
- School Parliament. A section on a school parliament in Hounslow, with some great comments from the students who are in the Cabinet. [www.listening.lgfl.net](http://www.listening.lgfl.net)

Talking Stories 2: Multimodal Teaching Resources for Literacy (P)

Although designed for upper KS2, these resources have material which many Y7 and 8 teachers have found to be relevant and useful. The more relevant of the 'stories' to KS3 might be:

- Coleridge’s ‘The Ancient Mariner’
- Sherlock Holmes in the ‘Red-Headed League’
- The forest scene from ‘Midsummer’s Night Dream’

The latter was produced with Y10 and 12 pupils from a South London secondary school. [www.stories2.lgfl.net](http://www.stories2.lgfl.net)

Teach It for London (P)

LGfL has a contract with the company that produces this popular resource for secondary English. The LGfL USO allows London teachers to gain access to an increased range of worksheets, IWB files and resources covering a wide range of the secondary English curriculum, London teachers also benefit from reduced prices for other Teach It content.

Shakespeare Picture collection (P)

A collection of production photographs from a wide range of stage and film versions, designed to support students' exploration of interpretation, staging and performance. Fully differentiated for use with students aged from 11 to 19, each play includes over 100 pages of editable, printable support material including lesson ideas, worksheets and production reviews. [www.shakespeare.lgfl.net](http://www.shakespeare.lgfl.net)
The LGfL London MLE offers ideal facilities to support the DiDA course.

Students can create and manage their own DiDA e-portfolio using the LGfL managed learning environment.

The Pearson Edexcel resources for teachers and students for DiDA unit D201 are online in full on LGfL. They can be found on the KS4 ICT menu on the content grid. [www.didauict.lgfl.net](http://www.didauict.lgfl.net)

**Safeguarding – Learning to stay safe when online**

**Our Online World and Meme**

Us Online 2 extends the acclaimed Roar Educate e-safety product with specific content created for the secondary school audience, including Our Online World for KS2-3 and Meme for KS4.

The resources address digital and web literacy, with activities which explain about making and posting content, cyber-bullying, copyright, networking and gaming, privacy and identity fraud, security and passwords, viruses and malware, file-sharing, secure transacting, and using the web for research. Modules include user e-safety surveys for each key stage, plus a fully resourced Teacher Centre, with video demos and lesson plans for every activity.

It reproduces elements of the online world, giving children and young people authentic experiences of situations online. Activities exploit the range of online techniques – animation, audio, video, gaming and high levels of interactivity – and the media rich product immerses children in the culture of their online world. [www.usonline2.lgfl.net](http://www.usonline2.lgfl.net)

For further materials on Internet safety please see ‘Celebrating Us’ on page 13.
History

- **Holnet (O)**
  LGfL has developed three sections of London History on National Curriculum topics:
  - London at War (with the Imperial War Museum)
  - Victorian London (with the Charles Booth papers at LSE Archives)
  - Schools in Victorian London (with the London School Board records at the London Metropolitan Archives)
  Find them in the KS3 and 4 History menus.
  
  www.holnet.lgfl.net

- **Landmark (O)**
  Lambeth Libraries has collated an online archive of photos, maps, diagrams and posters, all relating to history south of the Thames. LGfL schools can download the digitised version of any resource free for use in school.
  Find this in the KS3 History menu.
  
  www.landmark.lgfl.net

- **Southwark Pathe History Project**
  A group of History teachers from Southwark has produced exemplar lessons on using British Pathe to support playwriting, report writing and winter poetry. Each exemplar contains lesson plans, resources used and worksheets as well as teachers' evaluations of using British Pathe in the secondary classroom.
  Find this in the LGfL Projects section.
  
  www.southwarkpatheproject.lgfl.net

- **Barnet Migration Project**
  Unique material following the lives of people who came to live in Barnet. It includes the story of Bertha Leverton who arrived in Britain as a Kinder transportee. She dedicated a large part of her life to collecting stories about other Kindertransportees. Lots of primary sources and video, with downloadable teaching and learning materials.
  Find this in the KS4 History, Geography or Citizenship section.
  
  www.barnetmigration.lgfl.net
Timemaps

Animated, interactive history maps designed to enhance understanding of specific history topics for students.

These unique interactive map resources show history in ways not previously seen. Choose from 9 interactive maps ranging from The Norman Conquest to European Exploration and Discovery, the rise of Islam and the Black Death.

www.timemaps.lgfl.net

Citizenship

Celebrating Us, Us Online and Who We Are (P)

LGfL’s ‘Celebrating Us’ co-production with ROAR for KS2 and 3 is proving tremendously popular, as a Citizenship learning resource, a cross-curricular resource and an introduction to online safety and awareness.

There are now three units for KS3:

- **Us Online** looks at the delicate balance between online safety and online responsibility.

- **What We Do** focuses on the rights, roles and responsibilities we all have as citizens irrespective of our age.

- **Who We Are** looks at the issues of diversity focussing on identity, stereotyping, discrimination and migration.

www.roar.lgfl.net
Geography

- **RADwaste (O)**

A comprehensive resource, including tasks, videos and a mock decision making exercise paper.

It is designed to help students understand the importance of managing nuclear waste effectively in the UK. It also develops their debating, decision making and presentation skills - an important part of GCSE Geography.

[www.radwaste.lgfl.net](http://www.radwaste.lgfl.net)

- **National Weather Stations – online**

LGfL has an even higher density and level of detail in the monitoring and recording of weather patterns within the Capital region than the Met office! The data sets provide an excellent resource for numerous learning contexts including mathematical investigations.

With weather stations across London and the UK, schools can track weather systems across the region as well as contrasting inner and outer city conditions.

Yorkshire and Humberside Grid for Learning is installing weather stations across its region, and other learning grids have followed its example.  [www.weather.lgfl.net](http://www.weather.lgfl.net)

- **Low Carbon London (O)**

‘Are Londoners too selfish to make the changes necessary to address global warming?’

This new resource, developed in partnership with the Greater London Authority, brings experts on climate mitigation in London into your classroom – with high quality video resources supporting stakeholder role play.

The comprehensive curriculum support includes SEAL, PLTS and Behaviour for Learning guidance to help teachers and students explore whether London can achieve its ambitious carbon emission targets.  [www.lcl.lgfl.net](http://www.lcl.lgfl.net)
Creativity Resources

- Ballet Boyz (O)

For over three years, LGfL has been working with the Ballet Boyz Contemporary Dance Company (Michael Nunn and William Trevitt) to produce online dance resources for Key Stages 2 to 5. There are three productions – Encore, Torsion and Naked. The finished resources are now available online and include:

- Over 30 teaching videos featuring the Ballet Boyz
- More than 20 teacher guidance videos
- 3 pilot school video case studies
- 10+ performance videos by Ballet Boyz
- Complete support for SEAL, PLTS, BfL and AfL with Common Teaching Strategies suggested throughout

www.balletboyz.lgfl.net

- Gigajam (P)

LGfL now has even more of the award winning Gigajam VLE online instrument tuition resource for Keyboard, Drums, Guitar and Bass Guitar.

The latest LGfL version features integration with Student LGfL USO accounts for online e-portfolio development and performance tracking.

Gigajam VLE provides a complete Level of study equivalent to Debut grade, Grade One, Grade Two and Grade Three.

www.gigajam.lgfl.net
Old Vic New Voices (O)

In recent years many London schools have been involved in projects with the education section at the Old Vic. The results of these collaborations can now be found at www.ovnv.lgfl.net

All units come with lesson plans and videos to help you replicate the activities in your own classroom. Units include a stunning History and Drama unit on the Battle of the Somme.

Visual Business for KS3 & 4 (P)

A complete Business Studies course covering 2 years trading of a small print business. Lots of activities and assessments to give full curriculum coverage. Suitable not only for Business Studies but also for business studies aspects of other vocational courses.

Find this in the KS4 ICT menu.

www.vbusiness.lgfl.net

Espresso Faiths Module (P)

Espresso’s highly visual and engaging resources have won awards and praise in equal amount.

Commissioned by LGfL, Espresso Faiths looks at the six major world faiths as we would find them in London communities, with London children explaining their faith community to other London children.

Find this in the KS3 RE menu.

www.faiths.lgfl.net
LGfL offers exclusive resources from the latest National Theatre production of Hamlet by Nicholas Hytner. Artist interviews, key performances of the main soliloquies, curriculum support material and interactive whiteboard resources are all presented in this high quality examination support resource aimed at Key Stage 4 and 5 English teachers.

[Image of National Theatre advertisement]

Digital Collections

- The Guardian and Observer news archive (P)

LGfL has secured a perpetual licence for all LGfL connected secondary schools to access the Guardian and Observer Digital Archive, making available online every page, every article, every advert of the Guardian since 1821 and the Observer - the oldest Sunday paper in the world – since 1791.

Previously only available on microfiche or in fragile bound copies, you can now take a journey through time from the execution of Marie Antoinette to the first man on the moon at the click of a mouse.

The Digital Archive includes over 1.2 million pages of articles, photographs, cartoons, illustrations and advertisements up to the year 2000. Teachers and pupils with an LGfL USO can enjoy 24/7 online access free of charge.

[Image of Guardian and Observer archive]

www.newsarchive.lgfl.net
• British Pathe (S)

British Pathe provided a weekly newsreel which appeared in every cinema from 1896 to 1976. They have digitised these news stories to provide a unique online resource covering all manner of topics from sport to fashion, politics to war. The site has over 3,500 digitised video clips and nearly 12m stills, all downloadable in hi-resolution format at no cost if you are connected to LGfL.

www.britishpatheinfo.lgfl.net

• Audio Network (S)

When it comes to using recorded music in presentations or plays, schools have a problem – infringement of copyright and potential legal action.

The Audio Networks collection of 18,000 tracks of original music, sorted by style and genre, provides both a solution to the copyright problem and a rich, high quality resource widely used within the media industry.

Search for something ‘peaceful’ to set the tone as children enter the room or perhaps ‘spooky’ to open your Halloween production. An extremely expensive resource made free to use for LGfL connected schools.

www.audio.lgfl.net

• e-library (O)

If you have a library card, most London boroughs have licences to provide 24/7 online access to a wealth of reference works. These include the Britannica Encyclopaedia, Oxford Reference and more.

You need the number on your library card to log on to the resources. If you haven’t got one, join your local library now! To access, select the borough which gave you your library card from the list on www.elibrary.lgfl.net
To actually have the professional performers in the lesson with you, albeit in a virtual sense, guiding the students, is a real strength of the [Ballet Boyz] project. It’s brilliant in the way that the project appeals to boys and makes dance accessible for a range of students and produces impressive results with my students.

*Head of Dance, Ballet Boyz pilot school*

The Low Carbon London Project has been extremely successful in engaging students in their Geography lessons, providing opportunities for students to engage in active learning and for students to work in new ways.

Projects such as this give a strong message of hope, that in Geography, studying subjects such as climate change students can make a difference. They and their families through greater knowledge and understanding can make positive changes and these changes collectively will...over time make a difference.

*Geography Teacher, Low Carbon London Pilot School*

I think it important for us to do this work in school - as in a few years we will be voting for the first time - and this kind of topic [LGfL RADwaste project] will influence who we vote for.

*Year 10 Student, RADwaste pilot school*

The London Grid for Learning is a founder member of the National Education Network, the UK collaborative network for education, providing schools with a safe, secure and reliable learning environment and direct access to a growing range of online services and content.
Know your LGfL

Learn more of what's available  www.services.lgfl.net
Use premium, but paid for, resources  www.content.lgfl.net
Explore exemplars of practice  www.goodpractice.lgfl.net
Training for school leaders  www.ngl.lgfl.net
The main entrance to LGfL  www.lgfl.net
Curriculum Consultants  www.consultants.lgfl.net
More on the London MLE  www.mle.lgfl.net
Keep informed  www.news.lgfl.net
Learn about LGfL 2.0  www.anewera.lgfl.net
See it in action and show your team  www.videos.lgfl.net