

OPPORTUNITIES FOR CHILDREN WITH HIGH LEARNING POTENTIAL

Online Opportunities

IGGY Juniors is an online programme for creative young people aged 7 upwards.
[IGGY Junior Commission: Education and the Internet report.](#)

Khan Academy www.khanacademy.org/ features videos and self-paced exercises covering everything from arithmetic to history, finance to physics.

For children interested in Literacy, take a look at **Publishing House Me** www.publishinghouse.me.uk – a website where children can publish their own work. The site is well moderated and they run some events such as a Writers Festival.

The **Royal Society's** website contains curriculum-linked science teaching resources. All resources are based on the work of scientists connected with the Royal Society, allowing students to find out how science in the past is relevant for our lives today. <http://invigorate.royalsociety.org/>.

Woodlands School has some excellent information linked to the National Curriculum on the following subjects: Literacy, Numeracy, Science, History, Geography, Religion and Art.
<http://resources.woodlands.kent.sch.uk> .

Topmarks www.topmarks.co.uk provides activities and links to other sites on a wide variety of subjects including art, economics and astronomy.

Open Learn lists free courses from The Open University <http://www.open.edu/openlearn/free-courses>.

FutureLearn gives high quality online education free from top universities and other specialist organizations
<https://www.futurelearn.com> .

Open Culture lists 1,200 free online courses from top universities. www.openculture.com/freeonlinecourses.

Backyard Brains gives loads of open source science experiments to try
<https://backyardbrains.com/experiments> .

The Great Brain Experiment be part of a unique neuroscience experiment by playing games on your phone
<http://thegreatbrainexperiment.com> .

Neuroscience for Kids has lots of games by the University of Washington
<https://faculty.washington.edu/chudler/experi.html>

Grid Club is an online educational website with over 500 activities linked to the curriculum for 5 – 12 year olds www.gridclub.com .

Fantastic Contraption <http://fantasticcontraption.com/> is an online fun physics game.

Nrich Maths is a free online support for enriching mathematics for all stages <http://nrich.maths.org/public> .

Future Morph is a website design to show children aged 11 and above the exciting places studying science, technology, engineering and maths could take them www.futuremorph.org .

Stanford University offers 3 free online courses: Machine Learning <https://www.coursera.org/learn/machine-learning> Introduction to Artificial Intelligence <https://www.udacity.com/course/intro-to-artificial-intelligence--cs271> Introduction to Databases <https://lagunita.stanford.edu/courses/Home/Databases/Engineering/about>.

Udacity also has many other free courses, filter by click on 'free courses' in the menu on the left-hand side
<https://www.udacity.com/courses/all> .

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IGGY (International Gateway for Gifted Youth) is a network for gifted teenagers in the UK and Internationally, based at the University of Warwick www.iggy.net .

Free online extension activities for AS and A2 Levels by **Villiers Park**.
[Villiers Park Educational Trust | inspiring young people to fulfil their potential.](http://www.villierspark.org.uk)

National Centres

Children's University is a national network of centres that provide exciting and innovative learning activities and experiences outside normal school hours. www.childrensuniversity.co.uk/ To find your local centre:
<http://www.childrensuniversity.co.uk/home/work-with-us/local-cus/>.

For children who are into computers and like the idea of programming, a **coderojo** club is for them (if there is one near you). The best thing is they are free to attend! <http://coderojo.com/> .

Young Archaeologists' Club is a UK-wide club for 8-16 years olds interested in archaeology and has branches across the country www.yac-uk.org .

Young Engineers has a national club network for young people interested in engineering and annual national competitions. [Enrichment Programs - Young Engineers UK - Children's Franchise - LEGO Franchise.](http://www.youngengineers.org.uk)

RSPB Wildlife Explorer Clubs are volunteer-led clubs run across the country for kids interested in wildlife
[The RSPB: For children: Be a Wildlife Explorer.](http://www.rspb.org.uk/for-children/be-a-wildlife-explorer/)

Day and Residential Courses

Tomorrow's Achievers run day courses for gifted and talented children in London, the South East, Liverpool and the West Midlands www.tomorrowsachievers.co.uk/masterclasses .

Gift Courses is an organization that runs both residential and non residential courses for gifted and talented children. For more information go to: <https://giftcourses.co.uk/home-page> .

Kilve Court runs residential enrichment courses for able children in Years 3 – 12. For more information go to: [Holidays and Courses for Children and Young People - Kilve Court.](http://www.kilvecourt.co.uk)

Exscitec provides courses and summer schools in STEM subjects www.exscitec.com .

PGL is a provider of adventure holidays for children. Take a look at their themed holidays including film making, spy mission, video games workshop or music studio. www.pgl.co.uk/PGLWeb/individuals/ .

Uppingham School runs a programme of summer schools in music, technology, sport, drama, science and creative arts www.uppinghamsummerschool.co.uk .

Young Rewired State is a festival of code (computing) for young people and takes place at various venues around the country <http://youngrewiredstate.org/> .

Sutton Trust funds **University Summer School** places for children from disadvantaged backgrounds
<http://www.suttontrust.com/summer-schools/> .

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Oundle School runs a programme of residential and non-residential summer courses in languages, IT, music, the arts, and design and technology www.oundleschoolenterprises.org.uk/camps/index.php .

Smallpeice Trust runs a selection of engineering residential courses around the country for ages 13 upwards www.smallpeicetrust.org.uk .

Salters' Chemistry Camps runs clubs around the country as well as summer camps for Year 10 students who are enthusiastic about chemistry [The Salters' Institute](http://TheSaltersInstitute.com) || [The Salters' Company](http://TheSaltersCompany.com).

Debate Chamber offers 3-day summer schools for young people (Young Thinkers, Young Doctors and Young Lawyers) aged 11-14, as well as 3- and 5-day summer schools for 15-18 year olds in a variety of subjects www.debatechamber.com/summerschools .

Birmingham City University runs a programme of summer schools called **Future Creatives** for children aged 13 – 16. www.bcu.ac.uk/pme/nti/future-creatives .

Non-residential summer schools at **Imperial College London** from age 9 upwards and residential from age 11 www3.imperial.ac.uk/outreach/activitiesatimperialcollege/summerschools.

The **Oxford & Cambridge Summer School** offers 16-18 year olds the opportunity to experience what it's like to study at university in Oxford. www.oxfordcambridgesummerschool.co.uk.

Space School UK is run by the University of Leicester and there are programmes for ages 13-15 and 16-18 <http://spaceschool.co.uk> .

UNIQ Summer Schools run by the University of Oxford is a programme of free residentials in July and August for Year 12 students currently studying at UK state schools www.ox.ac.uk/uniq .

Prospects in the City provide specialist opportunities for young people to gain direct insight through work placements, workshops and briefings into a multitude of careers (e.g. law, medicine, finance, etc) that exist in the City of London and the City of Leeds. Also has a summer school for ages 15 – 18 www.prospectsinthecity.co.uk .