



Geospatial  
Commission

# GEOGRAPHY

Welcome, the Geospatial Commission and Government Geography Profession have put together this Home-Schooling newsletter to showcase the exciting online support available to parents and students studying Geography and STEM (Science, Technology, Engineering, and Mathematics) subjects as well as to those interested in the world of geospatial.



With thanks to contributing organisations, this newsletter provides a list of resources currently available to support **Geography and STEM** subject learning, more generally and across:

- 📍 *Key Stage 1 and 2*
- 📍 *Key Stage 2 and 3*
- 📍 *Key Stage 5+*

Technology is changing rapidly, affecting how we live, work and travel. Data, in all its forms, is central to much of this change, and geospatial data, **data about location**, is a vital element.

Data skills are in increasingly high demand across all sectors.

**With the use of Geographical Information Systems (GIS) now a requirement in schools, core geospatial skills are being delivered in UK schools by the public and private sector.**

**Geospatial data is changing the world and how we live in it.**





## Geography and STEM themed resources for home schooling

**The Royal Geographic Society (IBG)** provides a collection of resources for primary and secondary school students studying geography at home, including:

- 📍 *Key Stage 1 to 3:* [Full modules](#)
- 📍 *Key Stage 1 to 5:* [Articles and case studies](#)
- 📍 *Key Stage 3 to 5:* [Podcasts](#), [Animations](#), and [Online Lectures](#)

For more information check out [RGS Geography at home](#) or follow them on Twitter at [@RGS\\_IBGschools](#) [#geographyathome](#)

**Steve Backshall's Live Chat** live on YouTube every Wednesday at 9.30am, answering children's queries on wildlife, biology, conservation, geography and exploration.

**Discover the World Education** Geographic Information System and geography-based activities for school children.

**Ordnance Survey Mapzone** contains geography activities, map skills, quizzes and games. As well as being educational it is fun for all the family.



**Dynamic Earth Online** are sharing a series of fun and thought-provoking content online ranging from hands-on experiments that you can carry out at home, through to fascinating insights about the history of our planet and the science behind climate change.

**NASA at Home** section online featuring STEM activities, crafts, exercises and games for all ages.

**Mini Mappers** provide access to free "mappy" [resources](#) for use at home for all ages.

**British Geology Survey** have resources for students of all ages at [Discovering Geology](#). Follow them on [@BritGeoSurvey](#)

**Autodesk TINKERCAD** is a free easy to use app for 3D design and coding. They also have a collection of home [STEAM](#) projects.



## Key Stage 1 and 2 Geography themed resources

**Geographical Association** free to access resources for [primary school children](#)

**Get Kids into Survey** have free online geospatial resources for children, ranging from quiz sheets, posters, to a comic book where you can follow the adventures of the [Geo Squad](#)

**National Geographic** are keeping young minds busy with free resources for Primary school children.

**EDINA's Digimap for Schools**, in partnership with Ordnance Survey, is now free for schools and parents to access. Watch [this](#) intro video to find out more home-schooling activities. Resources for primary children can be found [here](#).

**Design Challenge 2020** for school children (8-13 years old). Working as a digital team, students can collaborate online to create a sustainable "Esteem Pavilion" in Dubai.

## Key Stage 1 and 2 other STEM resources

**Open Doors** allows children to virtually explore construction sites and also includes online activities such as [Build a block tower](#) (3-8 years old).

**CBeebies Maddie Moate** hosts a science lesson on [YouTube](#) daily at 11am, featuring garden activities, craft ideas and fun facts.

**The Institution of Engineering and Technology** have free STEM home learning [resources for children](#).

**ESA** science and space activities for children.

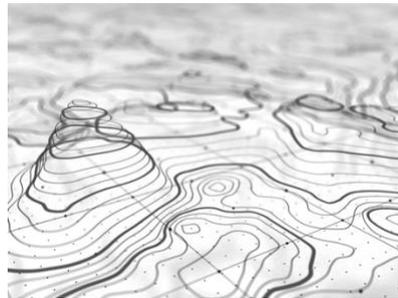
**STEM Learning** home learning resources for [primary school children](#).





## Key Stage 3 and 4 Geography themed resources

## Key Stage 3 and 4 other STEM resources



**STEM Learning** home learning resources for [secondary school children](#)

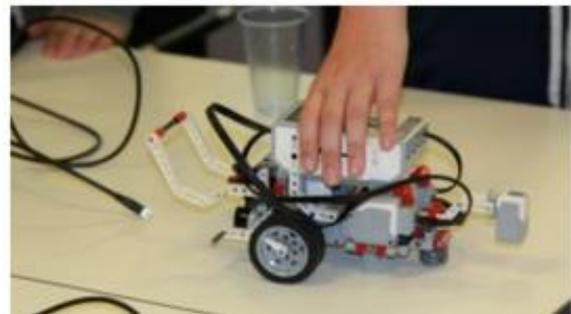
Take part in The Great Exhibition at Home Challenge, a [Big Ideas STEM project](#).

**EsriUK** has a number of online resources to get students started with using Geographic Information Software (GIS) and understanding maps and data. The resources consist of short videos with follow up activities that will build skills and knowledge around GIS and Geographic Information.

1. [Getting started with maps and data](#)
2. [Getting started with 3D maps](#)
3. [Collecting fieldwork data](#)

**The Institution of Engineering and Technology** have free STEM home learning [resources for Key Stage 3 and 4](#).

**Geographical Association** has prepared resources for Year 11 students planning to study A level geography in 20/21 visit [Preparing for A-level geography](#). In addition free to access resources for secondary and 16+ students are available at [Secondary and post 16 resources](#).





## Key Stage 5+ Geography themed resources

**The Royal Geographic Society (IBG)** has online resources for A level students and can be found at [RGS Key Stage 5 resources.](#)

A webinar for A level students on fieldwork and GIS skills followed by a regular series of geo related online courses are planned post Easter. Follow them on Twitter at [@RGS\\_IBGschools](#) [#geographyathome](#)

**Geographical Association** has prepared resources for Year 13 students preparing for the [transition to university in 20/21.](#)



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## Key Stage 5+ other STEM resources

The [MAGIC website](#) provides geographic information about the natural environment. The information covers rural, urban, coastal and marine environments across Great Britain. It is presented in an interactive map which can be explored using various mapping tools that are included. Users do not require specialist software and can access maps using a standard web browser. It is a useful resource for A level students.

**Autodesk** supports A level students via free access to design software and creativity tools, resources and careers advice.

**STEM Learning** home learning resources for [16+ students.](#)

**Disclaimer:** The links provided in this newsletter are for informational purposes only; they are not under the control of the Geospatial Commission or Government Geography Profession.