

STEM from Home Pack 14

STEM Inventions!

Some of the most significant STEM inventions to date include the light bulb, antibiotics, the telephone, the computer and the internet. These inventions have paved the way for the future of STEM, allowed businesses to operate in new ways and increased the quality of life for people around the world.

This week, children will create their own pattern designs with Scratch, research famous STEM Inventions and design an invention to help children study STEM subjects!



This Week's Technical Activity – Famous STEM Inventions!

So who created some of STEM's most famous inventions?

Invention	Inventor	Year Invented	Description
Telephone	Alexander Graham Bell	1876	An instrument designed for the transmission and reception of the human voice via wire or radio
Light Bulb	Thomas Edison	1879	A rounded glass container with a thread of metal inside that produces light when an electric current goes through it
Antibiotics	Alexander Fleming	1928	A medicine that prevents the growth of or destroys microorganisms. Fleming created the first antibiotic – penicillin

Though these individuals may be credited with the creation of the inventions, many were adapted from the work of other inventors. Can you find out the complete history of the Telephone, the Light Bulb and Antibiotics?

Now it's over to you to research some of STEM's most famous inventions! [Access this template.](#)



This week's Technical Activity - Pattern Pen!

Introduction

In this activity you will learn how to invent your own pattern generator!

[Access this activity.](#)

What you will need

A computer capable of running Scratch 3 either [online](#) or [offline](#).

What you will learn

In this activity, you will learn how to use the pen tool, update variables in loops, using repeat until loops, getting input values with ask blocks and using multiple lists with properties related by index.



This Week's Bonus Activity – Design an Invention to Help Children Learn STEM Subjects!

This week's bonus activity is to design an invention that will help children to study **S**cience, **T**echnology, **E**ngineering and **M**aths.

STEM subjects are taught in schools, but are there other ways we can help children to study and enjoy STEM?

We want to encourage as many children as possible to study and enjoy STEM subjects in order to build the next generation of the STEM workforce. Your invention could help to teach lessons, assist in experiments or build hardware. Designs can be produced as drawings or models, it's up to you!

What technology will you use? What will you help to teach? What will your invention be called?

Ask your parent/Guardian to upload pictures of your STEM creations to **Twitter**, **LinkedIn** or **Facebook** using **#STEMfromHome** and **#ExperienceCGI**, remember to tag us!



For more information or additional support with STEM activities when working remotely, contact enquiry.uk@cgi.com