

# STEM from Home Pack 12

## Music & Sound!

Music plays a big part in our everyday lives, whether it be playing our favourite songs, listening to the radio in the car or background music in films and TV. Music is also important in business, the UK music industry is worth more than £5 billion! Businesses use music in adverts to help sell their products and in shops to help set certain moods.

This week, children will code a live DJ set, create their own STEM rap and play homemade musical drinking glasses!



### This Week's Activity - Learn to Rap with Jon Chase!

Jon Chase is a freelance science communicator, author and rapper based in South Wales. Jon has a passion for scientific thinking and believes that knowledge should be made available in a way that allows as many people as possible the opportunity to gain access to it.

Jon has written and performed many raps based around science, space, maths and more! These raps are used as a fun and engaging way to help students learn the key information about these subjects.



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

More of Jon's raps can be found on his [YouTube Channel](#).

More information can be found on [Jon's website](#).

Connect with Jon on [LinkedIn](#).

Follow Jon on [Twitter](#).

Creating raps, songs or poems make great revision techniques! As Jon shows on the left, creating rhymes and tunes can help to make even the most complex subjects understandable and memorable!

## This Week's Task

This week's competition is to create your own rap, song or poem about one of the following topics:

Science	Art	Engineering
Exercise	Mathematics	Friendship
Communication	Technology	Sport

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

Aim to make your rap, song or poem around 30 seconds long, highlighting key themes of your chosen topic. Your rap can be created as a sound clip, photo or piece of art, it's up to you!



## This Week's Technical Activity - Live DJ!

### Introduction

In this project you will learn how to code a live music performance that you can add to and edit without having to stop the music!

[Access this activity.](#)

### What you will need

A computer capable of running [Sonic Pi](#).

### What you will learn

In this activity, you will learn how to use Sonic Pi 'Live Loop' and how to play random notes and samples.



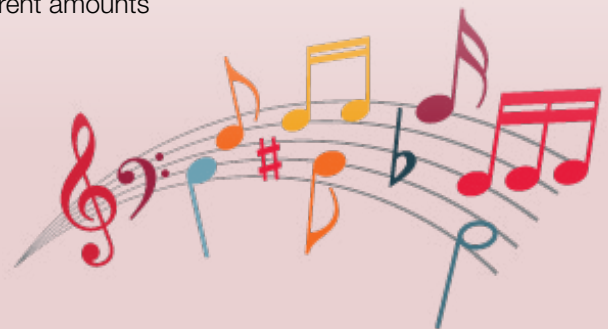
## This Week's Bonus Activity - Musical Drinking Glasses!

Learn to play tunes on drinking glasses containing different amounts of water!

You will need:

- 6-8 identically sized drinking glasses
- Water
- Spoon
- Measuring jug

Access the [template for this Activity](#).



For more information or additional support with STEM activities when working remotely, contact [enquiry.uk@cgi.com](mailto:enquiry.uk@cgi.com)