

STEM@CGI AT HOME

STEM-based activities for kids that can be done at home

Staying active. Learning together. #STEMatHome

“STEM@CGI at Home” offers weekly STEM-based activity packets for children, including practical STEM activities and competitions. Get your family involved, share pictures, learn and have fun!

Activity 1 – Pick your career like a scientist!



Watch the Career Visioning video here.

Approach the question “what do you want be when you grow up?” using the scientific method:

- Step 1 – Question** – What do you want to be when you grow up?
- Step 2 – Hypothesis** – Based on everything you already know, what might you want to be?
- Step 3 – Test hypothesis** – Do an internship. Learn more about the career. Talk to people who work in the profession.
- Step 4 – Analyze data** – What did you learn about the career?
- Step 5 – Draw conclusion** – Based on what you have learned, do you still want to be this when you grow up?
- Step 6 – Communicate results** – Talk about your conclusions with your parents, friends and/or a teacher/mentor.

Activity 2 – Your Career Vision Board – Competition

What is a vision board? A vision board is a display you create of your future that is designed by you to inspire you.

Ages – 8 and up

1. Follow the tutorial on how to **animate your name** in Scratch.
2. Go to “Create” and begin working!
3. Use what you just learned to include what you want to be when you grow up!
4. Add images from the Scratch library that make you happy and that you would like in your future.



Ages – 11 and up

Let's gather some data before making our vision boards!

Research Tool 1 – Yourself!

- Take **this survey** part of the **CareerOneStop**, suite of web products, sponsored by the U.S. Department of Labor Employment and Training Administration, to see what professions align with your interests.

Look at the results – look at jobs, the salaries and the professions outlook to see if it is for you.

Research Tool 2 – Still want to look into more jobs? Check out jobs by category **here** from the U.S. Bureau of Labor Statistics.

Research Tool 3 – Your parents! Talk to your parents about their jobs.

A few questions you can ask:

- What is your job?
- What do you do?
- What do you like most about it?
- What do you like least about it?
- What is a typical day like at your job?
- What do you wish you knew about careers when you were my age?

Create your dream career board! Create a physical version using a poster, including pictures and word cut-outs, or a digital version, using **Scratch** or any of the other platforms you've become familiar with.

Consider including images or words representing:

- Your dream career or industry
- People you admire in that job now or from history
- Education and training for the job
- Companies or businesses you might work for

Interview tips from the pros

Get interview advice from two of our recruiters – Andy Dye and Luke Lawson. Plus, learn a little more about CGI and our jobs.



Video

Interview with **Andy Dye**



Video

Interview with **Luke Lawson**

Activity 3 – STEM “Who am I?” game

This game teaches children about the world of STEM and all of its job possibilities! Players have to guess the STEM job role by asking up to 20 questions that can only have yes or no answers! There are 20 jobs on the board that encompass all areas of STEM, feel free to add your own!

Access the activity here.

Bonus activities

All bonus activities this week are courtesy of the U.S. Bureau of Labor Statistics

Games

Games to help test your knowledge of the U.S. Bureau of Labor Statistics.

STEM Career Chart

Check out STEM careers in this fitting periodic table format, including growth rate and annual average salary of the professions.

Consumer Price Index Inflation Calculator

What was a \$1.00 worth in February of 1987? Use this inflation calculator to learn that and more!

**Watch for more STEM@CGI at Home ideas next week.
Stay healthy and safe!**

For more information or additional support with STEM activities when working remotely, please contact us here.

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