STEM@CGI AT HOME

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

CGI

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 – Design your own Eco-School

This week's topic focuses on the environment, looking at the key issues facing our planet and ways in which we can help to secure a sustainable future for the next generations. Some of the most significant environmental issues that we face today include pollution, climate change and natural resources running low. We need YOU to help educate people on the steps they can take to help save the environment, design practical solutions and become experts in your local environments.

Students – This activity is to design your own Eco-School. As the experts who attend schools on a daily basis, we want you to help design the eco-friendly (environmentally friendly) schools of the future.

Are there any existing products/facilities that you would include? Will you create technology of your own? You need to think about which designs will be most effective, and offer the biggest benefit to the environment.

You should consider the following factors when designing your school:

- Which energy source will your school use?
- Is your school sustainable (can it rely on itself to function)?
- Which existing or new technologies will you implement?
- How will you dispose of used materials and waste?
- Where will you source your supplies and food?
- How will students and teachers help to ensure that the school is sustainable?

You can create your school using any method you wish. This could be a drawing, model, video or PowerPoint. Design the whole school if you can! Including classrooms, sports facilities, canteen/cafeteria and more!

Activity 2 – Online Activity: Create an Environmental Magazine

Students – In this project, you will learn how to use HTML and CSS to create a multi-page magazine website with a two-page layout. Your task is to create a two-page magazine that gives the general public tips and advice on how they can help to save the environment. Aim for at least 5 top tips and include images/graphics where possible.
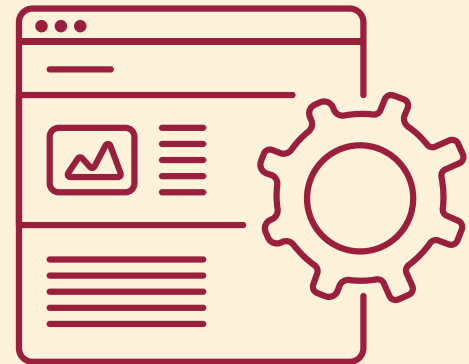
Access the activity.

What you will need:

- A PC/tablet capable of accessing trinket.io

What you will learn

- How to use basic programming to create a multi-page magazine website
- How to utilize intermediate HTML and CSS skills

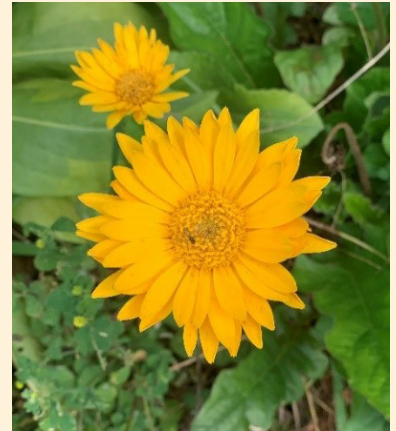# Activity 3 – Active Activity: Nature Scavenger Hunt

Students – This activity involves incorporating a nature hunt into your daily exercise routine, searching for items such as trees and birds as you keep active while exploring your local environment. View this video to get started.

This activity can be completed in your yard or on a short walk. Remember that you should be accompanied by a parent/guardian at all times and look both ways when crossing roads.

Remember to adhere to social distancing practices and follow government recommendations. In the CDC's COVID-19 "Caring for Children" section, the organization lists going with kids on a walk or bike ride as a way to keep them active. Check out the site for other great recommendations as well. Please check the section before your walk in the instance their recommendation changes as the situation develops.

Access the activities below:

- Nature Scavenger Hunt for students 4 to 10 years old
- Nature Scavenger Hunt for students 11 and up

Bonus activities

Reminder that third party software should not be downloaded on CGI devices.

Water Use Chart

Compare the amount of water used in various activities.

Polar Ice Cap Activity

Learn how melting polar ice caps impact the oceans.

Listen UP!

Activities from the Environmental Protection Agency (EPA) about preventing noise pollution and protecting your ears.

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**.

© 2020 CGI Inc.