

Robogals Science Challenge



Minor Challenge Set #1

STEM Field: Software Engineering (Non-Programming)

Level: Senior

Challenge Name: Be Smart, Secure, and Safe Online

Project Cost: 0 USD

Materials Required:

- Any device that has Internet connection and a web browser, for example, laptop, tablet, or mobile phone. Students will access Interland which is a free program, no registration is required.

Duration:

- The challenge takes approximately 1-2 hours to finish, however, the time guideline is an estimation only, and students and mentors can complete the tasks around their schedules.

Introduction:

Interland is an online resource developed by Google to teach students about digital safety. The topics range from being kind and creating a healthy space to interact online, identifying harmful content, to recognising what you should or should not share online, and learning ways to protect your privacy.

As we access the internet for our own learning, exploration, and entertainment, it is very important to be aware of our activities online. As the internet is a very vast space, you may encounter fake or harmful content. Therefore, it is important to build an awareness of the types of content you may interact with online, and develop your intuition of what to do when encountering negative content.

Instructions:

- 1) Click on the link https://beinternetawesome.withgoogle.com/en_us/interland to access Interland. When you see the main page similar to Figure 1 below, click on the **LETS DO THIS!** button to get started.

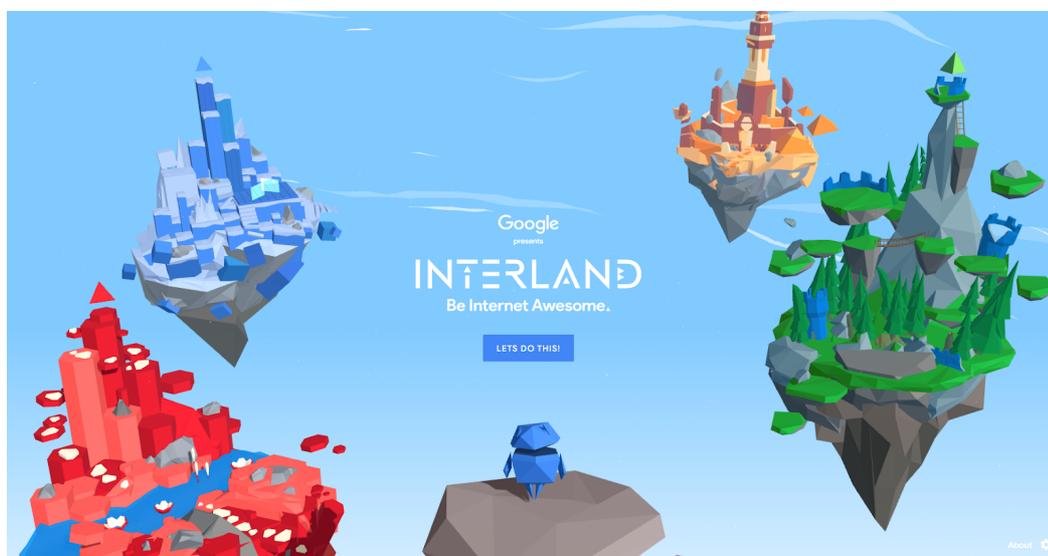


Figure 1. Main page of Interland, with four islands representing four online modules.

- 2) There are four main modules in Interland, each focuses on a digital safety topic. Click on the arrow button  to go to the next module.
- 3) In this Minor Challenge, you will complete **all four modules**. The description of all four modules is provided in step 6. You can complete the other two modules as part of the extension task.

Each module consists of games and quizzes to help you understand the topic better. You can earn points by answering the quiz questions correctly, and collect items provided in the instruction.

- 4) After finishing each module, take a screenshot of your points similar to Figure 2 below. Later on, you will be asked to submit the screenshot with reflection questions as part of this Minor Challenge submission.

You can also click on the  CLAIM CERTIFICATE button to get a completion certificate.

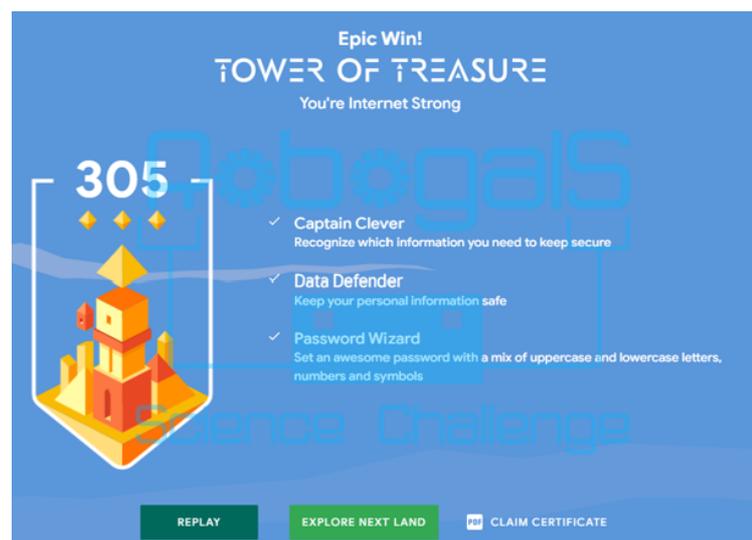


Figure 2. The final page upon completion of a module, displaying the final score. There are three options for the next step: to replay the module, explore the next land, or claim a completion certificate.

5) After completing a module, click on the **EXPLORE NEXT LAND** button to go back to the main page, and choose the next module to work through.

6) The description for each module is provided below.

Module 1: Kind Kingdom - It's Cool to Be Kind



Figure 3. The main page of the Kind Kingdom module.

The internet can be a great way to learn when comments, conversations and content are positive. Learn how to make choices to create a healthy space to interact with others, and disempower cyberbullying behaviour.

Module 2: Reality River - Don't Fall for Fake

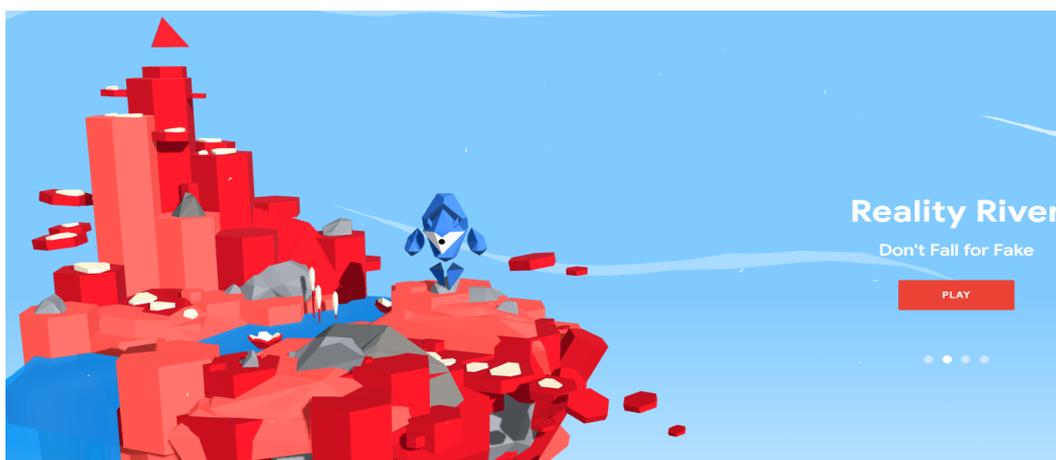


Figure 4. The main page of the Reality River module.

There are many fake and harmful emails, content, and apps online. Learn about what they are, how to identify fake content, and how to “trust your gut” when you see a possibly harmful content online.

Module 3: Mindful Mountain - Share with Care (Require to Complete)

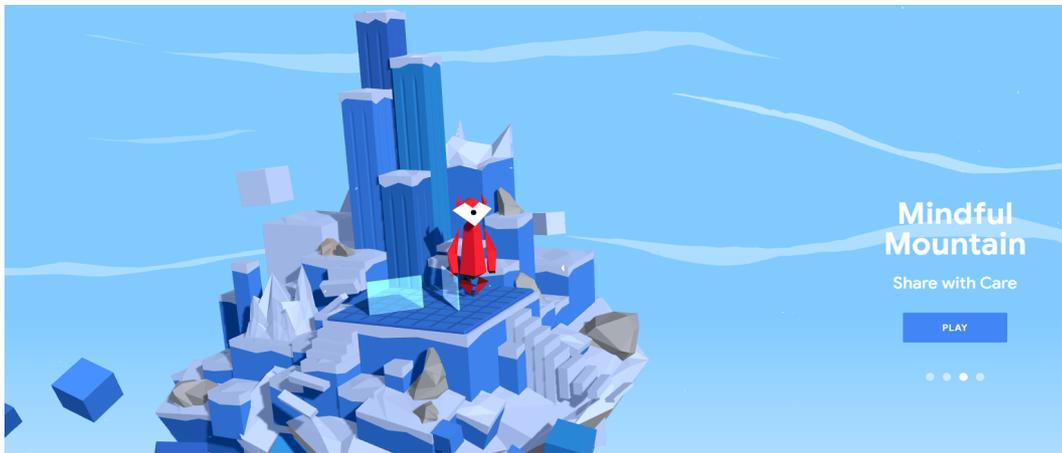


Figure 5. The main page of the Mindful Mountain module.

When you share content online, it will most likely be stored somewhere even after you delete it. Your content can be forwarded, copied, and found by other people who you may not want to share it with. Therefore, it is important to recognise and stay away from potentially dangerous situations that can have lasting consequences.

Module 4: Tower of Treasure - Secure Your Secrets (Require to Complete)

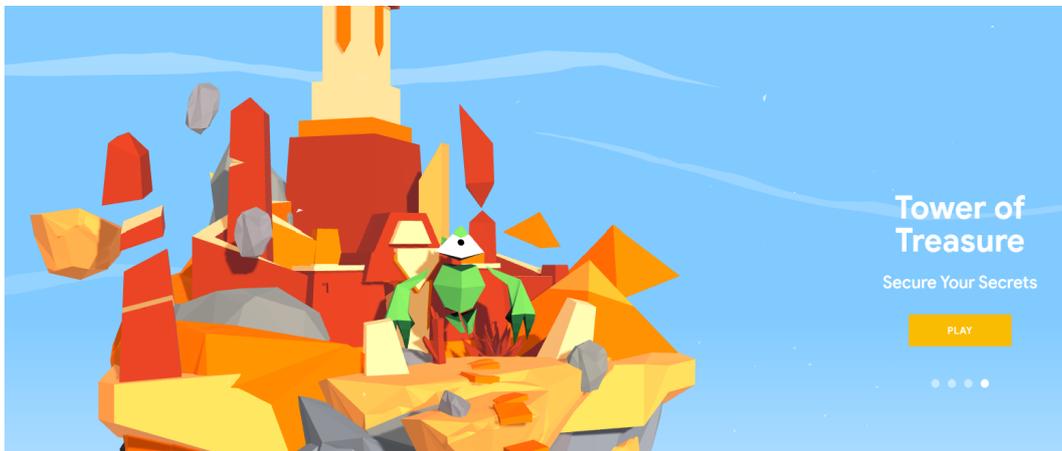


Figure 6. The main page of the Tower of Treasure module.

Privacy is more than just what you choose to share or not share online. Learn to recognise what information should be private and safeguarded – and what you need to do to keep it that way.

Extension:

- 1) Did you know that your activities on the Internet are always tracked and recorded? Trackers collect your personal information, the websites you visit, and information about your devices.

Let's take a quick peek at the digital information you leave behind. Click on the link: <https://myshadow.org/trace-my-shadow>. Then, select the devices that you use often to see the number of traces you leave.

- 2) When you use a browser to search for a piece of information, companies can use your digital information to build a profile about you.

Click on the link: <https://myshadow.org/browser-tracking>. Learn about how browser tracking works, and use tools such as

[Trackography](#) to see who is tracking you when reading news online.

Reflection Questions:

- Are there any improvements you would make to this challenge?
- List 3-5 types of personal information you should not share online, or with untrustworthy sources.
- Why does privacy matter to you?
- An important message as part of Interland is: “When in doubt, talk it out.” Some examples of harmful situations can be: seeing someone being bullied online, receiving a message from a stranger asking about your personal information, or seeing videos or photos that make you feel uncomfortable or upset online.

Create a step-by-step plan of what you would do if you encounter harmful and fake content online. Consider signs you would look out for to identify if the content is fake or harmful, who you would talk to about the situation, what you would do to refuse upsetting things.

There are many ways to refuse upsetting things online. Some examples are: block or remove the sender, turn off your device, delete things that people send you, find an adult to report to, and more. Reporting to an adult may not always be easy, so remember you can keep reporting until you find an adult who really helps you.

Submission Guidelines:

- Submit photos of your completed module, or attach the completion certificates. Include a short summary that addresses the reflection questions.

Note: Remember, if you want to upload pictures of your Minor Challenge that also include you, please check if it is OK with your parent or guardian first.

- The submission form is on the Minor Challenges page:
<https://sciencechallenge.org.au/index.php/minor-challenges/>
Fill out the details and make sure you upload your submission.

Learn More! Resources:

- Internet Awesome Tips booklet -
https://storage.googleapis.com/gweb-interland.appspot.com/en-us/hub/pdfs/Google_BeInternetAwesome_DigitalCitizenshipSafety_Tips_EN.pdf

This booklet has 5 quick tips for each pillar of the Internet Code of Awesome to help you be safe, smart and positive online.

- Cybersecurity Videos -
<https://www.pbs.org/wgbh/nova/labs/videos/#cybersecurity>

Learn about what cybersecurity is, the true meaning of hacking and why hackers hack, as well as how trustworthy online communication actually is.

Bibliography:

- *Play Interland - Be Internet Awesome* (no date) Google. Google. Available at: https://beinternetawesome.withgoogle.com/en_us/interland/ (Accessed: February 27, 2023).
- *Smart, Alert, Strong, Kind, Brave - Digital Safety and Citizenship Curriculum* (2021) *Be Internet Awesome*. Google. Available at: https://storage.googleapis.com/gweb-interland.appspot.com/en-us/hub/pdfs/2021/BIA_Curriculum_June-2021_EN_PDF-Version.pdf (Accessed: February 27, 2023).