

# Course: How to use technology to find, filter and apply information

Find, Filter, and Apply is a vital skill students will need when it comes to developing their ability to identify real world problems that exist and create solutions to solve them. This course will provide instructional material and a framework to help develop your students.

**Find** - The internet has created an infinite sea of information accessible to students. It is essential that students understand how to find the information they need to solve a problem and utilize tools which will be most efficient to do so.

Tools that we may cover: Google, YouTube, Social Media, Wolfram Alpha

**Filter** - With the vast amount of information that exists, it also has created information that may or may not be accurate. Students will need to know how to validate the information they find by determining the accuracy and relevance of the information, and the author's perspective and credibility.

During this course, we will provide a tool that may be used to assess the accuracy of any information.

**Apply** - Once accurate information has been obtained, students must apply that information to create something new that contributes to solving the problem at hand. We will provide instructional materials to assist students in creating content out of the information they find.

Tools or concepts that we may cover are: Google Documents / Sheets / Presentations, Project Proposal Templates, Design Thinking Process, Communication tools, Blogs/Podcasts/Videos etc.

**Final outcome for students** - After this course has been successfully implemented, your students should be able to utilize the internet to find accurate information and then use that information to solve real world problems.

## **Course Overview & Learning Outcomes**

### **Episode 1 - FIND - The New Age Encyclopedia (Google)**

Develop your students' knowledge and ability to use tools like Google in order to find relevant information.

1. Find relevant and accurate information to inform your practices
2. Demonstrate proficiency in using the feedback from various sources to improve their practices
3. Persevere in problem-solving and critical thinking

### **Episode 2 - APPLY - Using Design Thinking to Solve Problems**

Develop how your students think and approach problems by using the Design Thinking method to solve problems.

1. Design solutions to problems using the design thinking model
2. Develop test and refine a prototype as part of a cyclical design process
3. Apply Innovative thinking to apply innovative design

### **Episode 3 - FIND - The New Age Magazine (Social Media)**

Help students understand how to explore social media as an unconventional pathway for finding current information.

1. Identify Safe, Ethical, Legal, Positive social digital content
2. Apply cross-platform use of #s to discover information
3. Create Safe, Ethical, Legal, Positive social digital content
4. Explain the value of Safe, Ethical, Legal, Positive social digital content

### **Episode 4 - APPLY - Using Digital Tools to Solve Problems**

Help students use Web 2.0 tools, like Draw.io, and Google drive, to create digital assets that will support them in solving problems in their life.

1. - Analyze complex puzzles using computational thinking
2. - Demonstrate Algorithmic Thinking
3. - Create an algorithm to solve a complex problem

## **Episode 5 - APPLY - Creative Communication & Content Creation**

Teach students how to create digital content to communicate a complex message.

1. Synthesise complex information and be able to effectively communicate it
2. Design & create digital elements using Web 2.0 Tools
3. Author their own video & audio content

## **Episode 6 - FILTER - How to Verify Information for Accuracy**

As your students start to successfully find information, we want to develop their ability to measure the validity and reliability of that content using the FFA (Find, Filter, and Apply) Tool.

1. Demonstrate proficiency using the FFA Tool
2. Identify a source's bias & perspective, relevance, credibility, accuracy
3. Examine claims & information to determine truthfulness and credibility (Fact Checking 101)

## **Episode 7 - APPLY - Using Find, Filter and Apply to Solve Problems**

Using everything students have learned so far in the course, help them now solve a real world problem that exists in their community. This episode turns your classroom into an escape room that provides an immersive learning experience, rich with problem solving & critical thinking.

1. Demonstrate Creative problem solving skills
2. Use Critical thinking to connect seemingly unrelated pieces of information together
3. Collaborate with team members to generate solutions to complex problems