

# The Future of Education

In a world dominated by technology, today's youth need to understand how it works in order to thrive. Children of today need to build 21st century skills like critical thinking, problem solving and creativity.

Alphagen Learning is an online academy that provides 1 on 1 classes for kids and teens across several areas of technology including coding, graphic design, virtual reality and more.

Our goal is to empower this new generation, equipping them with critical life skills that help them unlock their own ideas and passions through technology.



## Holiday Camps '21

**Age 10 - 12**

The season of fun and learning has begun.  
Make sure your child makes the most out of it!

Call or message us

+65 96507344

## Camps Available for Age 10 - 12

Click on the buttons to go directly to a camp

### Coding on Scratch

Get creative with visual programming

### Mobile App Development

From the enjoyment of experiencing to the joy of creating

### Web Development

From consumer of content to empowered creator

### Graphic Design

Draw inspiration from the world around you

### Computer Skills for School

Make schoolwork a breeze

### 3D Printing

Visualise, plan & create in 3D

### Augmented & Virtual Reality

The storytelling toolkit of the future

### Microbit

Become a digital creator

## Camp Structure

Receive a certificate upon completion of each camp

Live 1-on-1 sessions online

Experienced teachers

Flexible timing

Personalised lessons

5 day camp: Monday to Friday

90 minute interactive class

Receive a certificate upon completion of each level

## Certifications

Scratch Creator



App Pioneer



Web Development Warrior



## Coding on Scratch

Get creative with visual programming



## Scratch 10-12 yrs old

2 Camps Available

\$225/camp

5 days • Monday thru Friday • 90 mins per day

Harness the endless possibilities of your young learner's imagination. In each week-long camp, your child will breathe life into animations, games & applications, for a fun learning experience. Developed by MIT, Scratch is a block-based coding platform ideal for introducing programming concepts. It's highly visual interface enables our learners to focus on problem-solving, patterns and logic.

**Best suited for:** Everyone! From budding artists to future technocrats.

### Your child will learn

Logical Reasoning

Problem Solving

Game Design

Critical Thinking

### Coding on Scratch

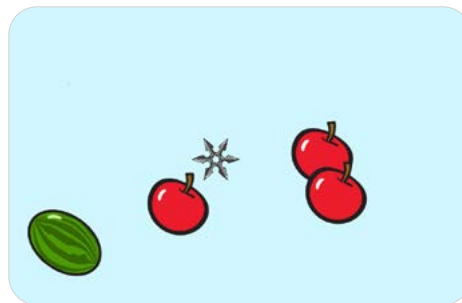
- Coding on Scratch introduces learners to Scratch and its possibilities and opens the door to an exciting world of technology.
  - Builds their foundation of coding principles and computational thinking
- Simulates advanced programming concepts in an easy-to-understand visual environment with drag-and-drop functionality
  - Boosts confidence in young learners

## Camp 1 Scratch Creator Core Learning

- If they don't have one already, your child will set up their Scratch account and join an online community of 50 million fellow students.
  - Students get exposure to real-world applications and learn to create a simple version of a chatbot.
- As the week progresses, they will become familiar with Scratch's potential and learn basic commands including Loops, Conditionals and Variables and Sensing to get busy creating!

**Prerequisites:** This is a beginner level camp with no experience necessary.

### Sneak Peek



Projects include a Chatbot & Language translator, a voice-controlled game and our take on Fruit Ninja which uses the webcam to detect motion!



## Camp 2

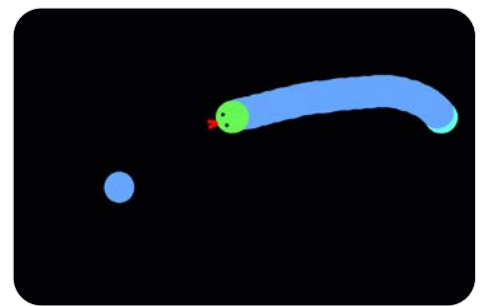
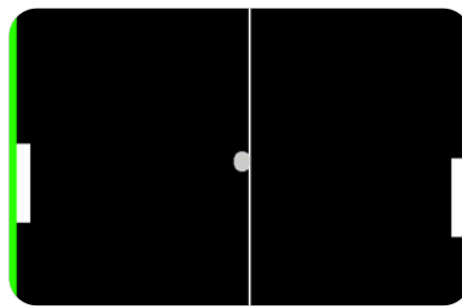
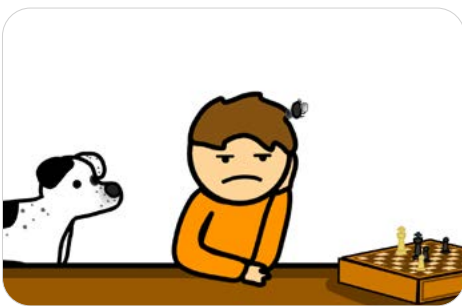
# Scratch Master

### Core Learning

- The creative sandbox where our learners bring it all together with a can-do spirit!
- Our happy campers can now conceive more interactive features in the animations, stories, and games that they design.
- Students use more advanced concepts like Inputs, Cloning and Broadcast & Receive to create interactive stories, multi-player games and more.

**Prerequisites:** Students need to have completed Coding on Scratch Camp 1 or similar introductory course as a prerequisite.

### Sneak Peek



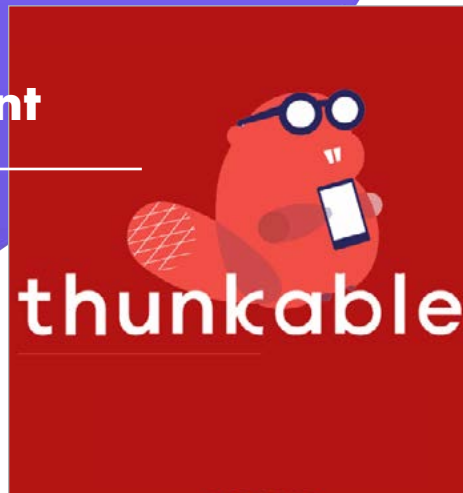
Projects include a version of the classic Snake game, a multi-player pong game and an interactive animation.

## System Requirements

A laptop or tablet with connected keyboard and mouse, webcam, and a good Wi-Fi connection.

# Mobile App Development

From the enjoyment of experiencing to the joy of creating



## Thunkable 10-12 yrs old

2 Camps Available

\$225/camp

5 days • Monday thru Friday • 90 mins per day

Mobile apps are essential to how we chat and connect, play and learn. Every year, the world downloads over 200 billion mobile apps! Gift your child this all-important perspective, as they learn to create their very own mobile apps to entertain, inform and engage. Thunkable has a drag and drop interface to design and develop apps with blocks of code. Your child can tinker and play on a tool used for real-world app development!

**Best suited for:** Everyone! We believe that everyone should understand the technology that they use.

### Your child will learn

Logical Reasoning

Design Thinking

UX Design

Creative Expression

### Mobile App Development

- Learn to look at app design from a User Experience (UX) perspective.
  - Deploy creativity in designing features that others enjoy using
- Enhance computational thinking and test outcomes using drag-and-drop blocks
- Journey from being a consumer of technology to a creator of technology

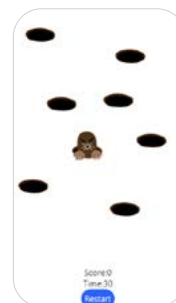
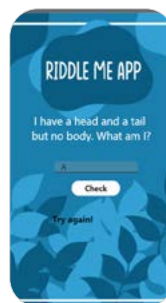
## Camp 1 App Pioneer

### Core Learning

- Your aspiring young developer will learn how apps are created and the magical power of the right app for the right audience.
- Gain experience on the Thunkable platform and learn to use elements like images, interfaces, buttons, sounds and other features.
  - Projects include simple games which use sensors in a mobile phone, a music player, and a quiz app

**Prerequisites:** This is a beginner level camp with no experience necessary.

### Sneak Peek



Projects include a maze game that uses a gyroscope (tilt), the popular Mole Mash game and a quiz app.



## Camp 2

# App Designer

### Core Learning

- Your junior developer will move on to even more complexity and excitement and build apps using the camera function and Web APIs that provide them access to an endless world of future app ideas.
  - Students will test their apps and interact with sensors on their mobile device.
- Your child demonstrates a newfound appreciation for the function of the everyday apps they use, along with the confidence to ideate new apps
  - Projects include a mask detector and a simulation game.

**Prerequisites:** Students need to have completed Mobile App Development Camp 1 or similar introductory course as a prerequisite.

### Sneak Peek



Project highlights include Tank Wars – a multiplayer game, a mask detector app, and a simulated donut store.

## System Requirements

A laptop with connected keyboard and mouse, webcam, and a good Wi-Fi connection.  
A smartphone to test their apps, either iPhone or Android

# Web Development

From consumer of content to empowered creator



## Wordpress 10-12 yrs old

1 Camp Available

\$225/camp

5 days • Monday thru Friday • 90 mins per day

From businesses, to news, to entertainment - websites are how we interact and transact. WordPress powers over 40% of all websites in the world – ranging from individuals to Fortune 500s.

It allows end-users to create and manage websites without needing mastery of a programming language, leaving developers free to create and focus on their audiences.

**Best suited for:** Junior hobbyists, artists, sportspersons, or musicians can proudly build a website to share their achievements with friends and family.

### Your child will learn

Creative Expression

Problem Solving

Design Thinking

Logical Reasoning

## Web Development

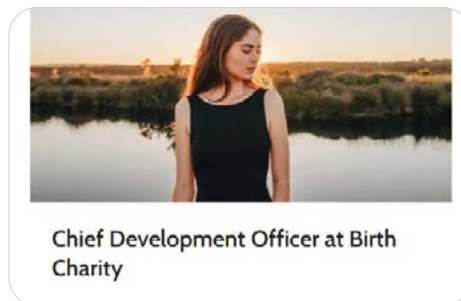
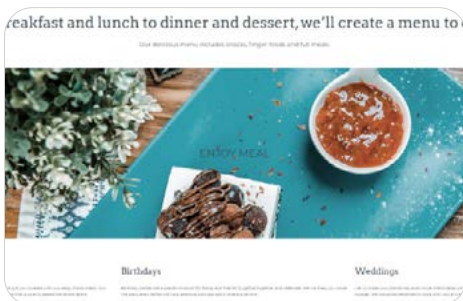
- This camp gives budding communicators the know-how and inspiration to build their online presence, safely and consciously.
- Your budding creator can kick off a long-term project that can grow with them as they build their design and development skills.
- Students will immerse themselves in learning to choose themes, layouts, and formatting options to create their very own website.

### Core Learning

- Understand the key elements of web design including layouts, menus and visual elements and more using both HTML and WordPress.
  - Experience and enjoy planning and designing a personal portfolio or website about a hobby or passion.
- Get familiar with one of the world's most popular content management systems and learn about site administration and maintenance for a 360-degree understanding of websites.

**Prerequisites:** This is a beginner level camp with no experience necessary.

### Sneak Peek



Students will design their own website using WordPress and simple HTML tags.

## System Requirements

A laptop or tablet with connected keyboard and mouse, webcam, and a good Wi-Fi connection.

## Graphic Design

Draw inspiration from the world around you



## Canva 10-12 yrs old

1 Camp Available

\$225/camp

5 days • Monday thru Friday • 90 mins per day

Artistic expression has a great role to play in the development of your child's unique blueprint. In today's world, kids need to be confident presenters and communicators. Graphic design equips your child with the tools to share clear, concise, and memorable messages with peers and teachers. Canva is an intuitive yet powerful platform that equips users with an array of templates that they can customise to suit any requirement.

**Best suited for:** Everyone! Watch your young learner blossom as they showcase their creative genius.

### Your child will learn

Creative Expression

UX Design

Communication

## Graphic Design

- Graphic design equips your child with the tools to share clear, concise, and memorable messages with peers and teachers.
- A focus on STEAM (Science, Technology, Engineering, Arts, Math) helps develop hard and soft skills to solve problems. Artistic exploration helps expose students to the creative process and increase their critical thinking skills.

### Core Learning

- Boost your child's confidence in completing homework and school projects
  - Deepen understanding of visual design through hands-on trial and error
  - The possibilities are unlimited. Watch your young creator design posters, cards and more!
- Add a unique dimension to projects using photo editing, filters, and a stunning range of special effects.

**Prerequisites:** This is a beginner level camp with no experience necessary.

### Sneak Peek



Students will learn to design a poster or logo, Instagram posts, YouTube banners and more.

## System Requirements

A laptop or tablet with connected keyboard and mouse, webcam, and a good Wi-Fi connection.



# Computer Skills for School

Make schoolwork  
a breeze



## Google 10-12 yrs old

1 Camp Available

\$225/camp

5 days • Monday thru Friday • 90 mins per day

With our Computer Skills week, campers will dedicate time and attention to laying the right foundation for digital literacy & citizenship. They will gain essential skills to help the navigate the online world safely as well as experience working on the Google Workspace suite to learn how to create and manage information via slides and spreadsheets.

**Best suited for:** Everyone who uses a computer for an array of tasks! We prefer that our campers learn these vital skills through choice rather than chance.

### Your child will learn

Productivity

Academic  
Confidence

Communication

## Computer Skills for School

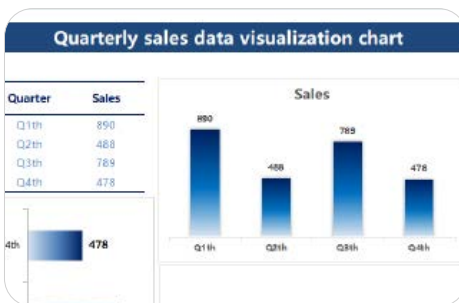
- In this camp, our students lay the right foundation for a lifetime of responsible digital usage
- They will learn to manage schoolwork, extra-curricular projects and more with confidence and minimise errors, lost work and time wasted

### Core Learning

- Use Google Slides to create impactful presentations using different layouts, media, and diagrams.
- Get exposure to Google Sheets for valuable spreadsheet knowledge and learn how to analyse data and perform calculations
- Build an understanding of how to use their Mac or PC effectively from managing their downloads and information, to browsing safely online.

**Prerequisites:** This is a beginner level camp with no experience necessary.

### Sneak Peek



WEEKLY SCHEDULE		Starting: 27-May-19		
		MORNING	AFTERNOON	EVENING
Monday	27	9:00 - 10:00	10:30 - 12:00	4:00 - 4:30
Tuesday	28	9:00 - 10:00	10:30 - 12:00	4:00 - 4:30
Wednesday	29	9:00 - 10:00	10:30 - 12:00	4:00 - 4:30

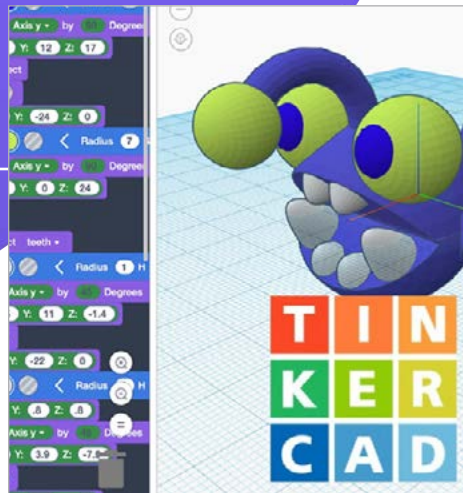
Design a presentation using Google Slides, and learn to analyse and present data in Google Sheets.

## System Requirements

A laptop with connected keyboard and mouse, webcam, and a good Wi-Fi connection. Students should also have an email ID - preferably Gmail.

## 3D Printing

Visualise, plan &  
create in 3D



## Tinkercad 10-12 yrs old

1 Camp Available

\$225/camp

5 days • Monday thru Friday • 90 mins per day

3D printing is one of the most important toolkits of the future, with applications across industries like medical, transport, education, construction and more.

Tinkercad is an online 3D modelling platform loved by both students and businesses. It allows your child to design in 3D using a drag and drop interface to visualise how parts of a 3D object fit together to form a whole.

**Best suited for:** Junior artists or engineers and Lego enthusiasts

### Your child will learn

Spatial  
Thinking

Design  
Thinking

Creative  
Expression

## 3D Printing

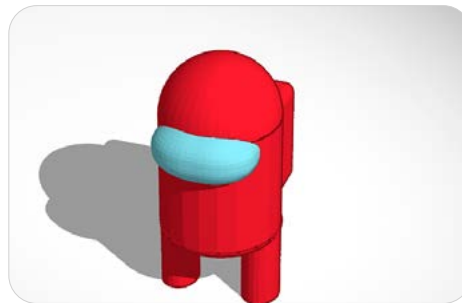
With the world becoming increasingly virtual, this camp helps learners understand how objects on the computer screen have real-world applications. Our students design their very own 3D models and learn how to manipulate and transform shapes on screen. If their design permits, we 3D print a student's project and send it to them as a keepsake!

### Core Learning

- Develop building blocks to competencies in engineering, mathematics and applied sciences with fun projects like creating a light saber, 3D rocket or even 3D jewelry.
- Logic and creative thinking on the journey from concept development to creation
- Acquire a deep non-academic understanding of geometry concepts, spatial learning, and perspectives

**Prerequisites:** This camp is suitable for all students.

### Sneak Peek



Projects include building a replica of Frozen's Olaf or an Among Us character, a drone and even the Eiffel Tower!

## System Requirements

A laptop or tablet with connected keyboard and mouse, webcam, and a good Wi-Fi connection.

## Augmented & Virtual Reality

The storytelling toolkit of the future



## CoSpaces 7-9 yrs old

1 Camp Available

\$225/camp

5 days • Monday thru Friday • 90 mins per day

Augmented Reality (AR) and Virtual Reality (VR) are powerful tools with applications both in education and beyond. Empower your child to dream with a multimedia immersion!

CoSpaces Edu is a virtual reality platform created especially for education that let's students design, code and interact with their own AR & VR creations.

**Best suited for:** Everyone! For the storyteller with the wildest imagination, these tools can take their narratives to the next level!

### Your child will learn

Creative Expression

Spatial Thinking

Logical Reasoning

Curiosity

## Augmented & Virtual Reality

In their AR & VR week, our learners will create characters, insert them into a 360-degree virtual environment and use code that will make both come alive. They will animate their characters and develop interactive scenes that will provide hours of fruitful entertainment and creativity.

### Core Learning

- Fun exploration of 3D environments to build STEM skills with projects like a parkour playground and virtual safari.
- Students also apply their creativity and imagination to build a virtual environment using their own ideas.
- Deepen their understanding of coding concepts by introducing events, variables and more in a VR world.

**Prerequisites:** Students need to have completed Coding on Scratch Camp 1 or similar introductory course as a prerequisite.

### Sneak Peek



Projects include a virtual safari, treasure hunt and an anti-gravity room!

## System Requirements

A laptop or tablet with connected keyboard and mouse, webcam, and a good Wi-Fi connection.

## Micro:bit

Become a digital creator



## MakeCode 10-12 yrs old

1 Camp Available

\$270/camp (includes a Micro:bit set)

5 days • Monday thru Friday • 90 mins per day

BBC's Micro:bit is a tiny but powerful pocket-sized computer that gives your child a bird's eye view of how hardware and software interact, and a fantastic tool to introduce learners to Robotics. MakeCode - a platform by Microsoft - is an official platform to program your Micro:bit and designed to evoke a sense of wonder, curiosity and excitement in your child as they visualise and execute projects with immediate results.

**Best suited for:** The avid tinkerer and crafter will derive hours of enjoyment with Micro:bit and its limitless possibilities.

### Your child will learn

Design Thinking

Problem Solving

Logical Reasoning

Curiosity

## Micro:bit

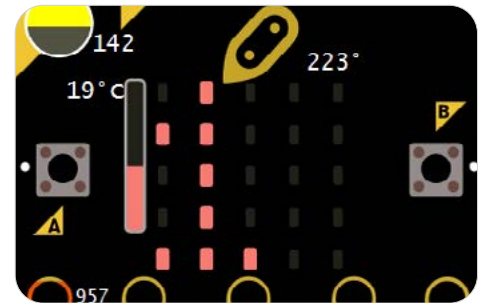
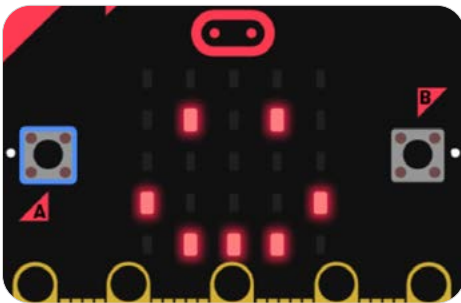
Watch as your child's coding efforts literally come to life to control the behaviour of the Micro:bit. Your child will learn how to use the various sensors contained in the Micro:bit, namely, accelerometer, light, touch and temperature to create super cool projects that introduce them to the world of robotics.

### Core Learning

- A bridge between programming and real-life hardware helps build powerful logic in real time
- Hours of fun and tinkering which leads to learning through trial and error. Projects include a Rock, Paper Scissors game, step counter and temperature logger.
- Kids can continue using their Micro:bit set for endless possibilities of cool projects and possible extensions.

**Prerequisites:** This camp is suitable for all students.

### Sneak Peek



Projects include a step counter, intruder alarm and a Flappy Bird game.

## System Requirements

A laptop with connected keyboard and mouse, webcam, and a good Wi-Fi connection.  
A BBC Micro:bit kit that we will mail to you, please allow 3 days for shipping. (Cost included in camp fees)

So what are you waiting for...

**Enroll now!**

---

**For complete details**



 **AlphaGen**  
Learning

Reach out to us

Call or message us at

 +65 96507344

[alphagenlearning.com](http://alphagenlearning.com)