

# AWS GetIT Programme Overview

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AWS GetIT is a fully-funded education programme and competition designed to inspire all 12- to 14-year-old students, especially girls and other young people from underrepresented communities, to consider a future career in STEM (Science, Technology, Engineering, Mathematics). The programme introduces students to the cloud, different types of careers in tech, and how cloud-based tech is used to solve real-world problems. Schools receive support throughout from AWS GetIT Ambassadors.

### Intended Audience

All sections in the curriculum are intended for:

- Students who are at least 12-14 years old and attend schools enrolled in AWS GetIT
- Educators who teach 12–14-year-olds at schools in a country/area where AWS GetIT is offered

### Available Languages

The program is available in English (UK) and Welsh.

### Ambassador Support

Participating schools are paired with an AWS GetIT Ambassador. AWS GetIT Ambassadors are tech professionals who are connected to historically underrepresented communities and want to be role models who inspire the future generation of inclusive and diverse tech leaders. The curriculum includes three points where your ambassador can directly support you. Ambassadors introduce the students to AWS GetIT via a kickoff presentation and assist student teams with their app idea and competition submission, while providing ongoing support to ensure students get the most out of their experience. To prepare for your AWS GetIT Ambassador, Future Foundations will help schedule your engagement.

### Recommended Delivery Method and Timeline

AWS GetIT curriculum is designed to be facilitated by an educator in a classroom setting in-person, virtually, online, or offline. At the beginning of the academic year, educators can register for the program and decide deliver and complete the program in three to six months, and enter into the optional country-wide competition. Each educator who signed up for the program will receive a login to the AWS GetIT Canvas Learning Management System (LMS) via the collaborating organization.

*Delivering online (either in-person or virtually):* Educators must provide their email address, and how many anonymous student logins they require (this is unlimited and can be as many as an educator requires).

*Delivering offline (either in-person or virtually):* Educators must provide their email address to receive access to the AWS GetIT Canvas LMS to download the program's offline content packs.

## Technical Requirements

To digitally access the online curriculum content to deliver to students, technical requirements include:

- Access to a laptop (Windows, Mac, Linux, or Chromebook)
- Access to internet connection

To access offline content, educators and students can download PDFs via AWS GetIT's LMS.

At the start of the program, educators will receive suggested timetabling and timelines, lesson/project plans, and check lists to help them decide how to deliver the program in their existing curriculum or as an extra-curricular activity.

## Curriculum Overview

Intended for 12- to 14-year-old students, educators can deliver AWS GetIT curriculum's eight main sections, plus two optional supplemental sections in a classroom setting over three to six months. The curriculum features a combination of instructional content, videos, activities and exercises, handouts, games, and quizzes.

The program curriculum is available in 14 languages, and is ready for delivery in-person, virtually, online, or offline. If delivering offline, educators must be able to access AWS GetIT's learning management system to download the content. Worksheets can also be downloaded, so educators can grade portfolios as part of their curriculum/classes or to support selecting a team idea to submit for the program's competition.

The curriculum explores environmental and social issues to support students as they prepare to work in teams to pick an app idea and design an app wireframe that solve problems in their communities. Students will learn and leverage foundational skills, including cloud basics, elements of design thinking, proof of concept, storyboarding, and research methods for idea viability. Students will also build experience working in teams and gain self-confidence, all while being exposed to technology as a potential career.

As they brainstorm their app ideas and prepare to present their wireframe to the larger group, students are empowered to use their unique perspectives and experiences to come up with solutions that benefit others in their school or community rather than their own personal interests. With support from AWS GetIT Ambassadors and inclusive language throughout the program content, students are also encouraged to ensure equitable collaboration with each other as they design their app ideas.

### AWS GetIT Curriculum Sections

**Section 1:** Welcome to AWS GetIT

**Section 2:** Starting your App Design - Technology Careers and Skills

**Section 3:** Designing your App - The Design Thinking Cycle

**Section 4:** Understanding Apps - What is the Cloud

**Section 5:** Designing Your App - Sustainability and Accessibility

**Section 6:** Designing Your App - Emerging Technologies

**Section 7:** Finalizing Your App Design

**Section 8:** The AWS GetIT Journey: Wrap Up

#### Supplemental Sections:

- Learn more about Cloud Technology – enrichment activities
- Additional Resources

After completing the program curriculum, schools can submit one student app idea for consideration in a country-wide competition. Teams with ideas in the finals present to a judging panel of experts in the tech industry.

## Curriculum Section Overview

<b>SECTION 1: Welcome to AWS GetIT</b>		
<i>Program introduction and examples of different job roles in technology and how tech can be used in everyday life.</i>		<b>45 minutes</b>
<b>MODULE</b>	<b>TYPE</b>	<b>TIME</b>
<a href="#">Welcome to AWS GetIT</a> <i>The first stop in your journey! Enjoy the welcome video and learn more about the program, the AWS GetIT Ambassadors, and more!</i>	Video	3 min
<a href="#">Getting Started: Program Guide</a>	Handout	5 min
<a href="#">Using Technology: Laura's Day</a> <i>Follow Laura, a typical student living in a large city, as she goes through her day interacting with different kinds of technology. Examine how tech is a part of her life from waking up to going to bed.</i>	Learn	3 min
<a href="#">Examining Different Technology Roles</a> <i>There are quite a few individuals involved with creating and maintaining the technology that makes Laura's Day possible. Take a peek at some of those roles, and get an idea of future potential careers.</i>	Learn	2 min
<a href="#">AWS GetIT Journey Portfolio: An Overview</a> <i>As you progress on your AWS GetIT journey, you will be asked to reflect on some of the new ideas that you have learned. When you're done, you'll have a full presentation. Learn more about it, and how it will be evaluated.</i>	Presentation	5 min
<b>*Ambassador Touchpoint – Kick off presentation (Online or in person)</b>		
AWS GetIT Ambassador presents what the program is, how they got into technology, why they aim to inspire students, and get them excited about taking part in the program and competition! This can take place before, during or after Section 1.		20 min
<b>SECTION 2: Starting Your App Design – Technology Careers and Skills</b>		
<i>Introduction to app design technical skills; soft skills (i.e., communication, conflict resolution and emotional awareness); diversity, teamwork, inclusion, and equity; and how to start brainstorming ideas. Students should work in teams for the Group Activity and Presentation Exercise.</i>		<b>2 hours</b>
<b>MODULE</b>	<b>TYPE</b>	<b>TIME</b>
<a href="#">Technical Skills for App Design</a> <i>In many cases, it's better to have help than to try to go at it alone. Examine four different types of technical skills necessary for your app's success. Look for individuals with these skills when building your app design team.</i>	Learn	4 min

<p><a href="#">What are Soft Skills?</a> Employers continually stress that they are looking for soft skills in someone they want to hire. What are these soft skills? What should you look for in assembling your app design team?</p>	Learn	3 min
<p><a href="#">Diversity and Teamwork</a> When picking teams, it's natural to want to work with your friends or people you know have similar interests. But did you ever stop to think how the characteristics that make us different from each other can actually be used to build an even stronger team?</p>	Learn	3 min
<p><a href="#">Intro to Brainstorming</a> Brainstorming is a fun part of the design thinking process. Learn new strategies and different ways to complete the process!</p>	Activity	15 min
<p><a href="#">Teamwork Skills: Listening</a> Being a good listener takes practice! Learn more about listening and understanding with empathy, as well as how to ask questions and pose problems.</p>	Activity	2 min
<p><a href="#">Can You Spot a Good Listener?</a> Have you ever had a conversation with a friend and they thought you said something that you actually did not say? Were they paying attention? Check your understanding of listening visual cues.</p>	Quiz	3 min
<p><a href="#">A Strong Team with a Bright Mission</a> It's time for you and your teammates to make some big decisions. These decisions will guide you through the rest of this journey, so choose wisely.</p>	Group Activity #1	25 min
<p><a href="#">Your Team and Idea</a> Design your first two presentation slides. The first will present your team, the second will cover the problem you want to solve. Don't forget to be creative!</p>	Presentation Exercise #1	15 min
<p><b>SECTION 3: Designing Your App – The Design Thinking Cycle</b></p>		
<p>Introduction to the four stages of the Design Thinking Cycle. Students should collaborate together in their groups using listening skills to brainstorm app ideas and choose one of the ideas to move forward with.</p>		<b>30 minutes</b>
<b>MODULE</b>	<b>TYPE</b>	<b>TIME</b>
<p><a href="#">Put on Your Design Thinking Cap</a> As with any technology tools, creating an app takes a collaborative team, special technical skills, and lots of knowledge about the users. The process that you can use to build, test, and quickly update your ideas is called design thinking.</p>	Video	1 min
<p><a href="#">The Design Thinking Cycle</a> Design thinking is a way for people to create unique and inventive ways to solve real-world problems by focusing on empathy, creativity, and collaboration. Learn more about the 5 parts of the cycle.</p>	Learn	5 min
<p><a href="#">Design Thinking: Empathize and Design</a></p>	Learn	5 min

<i>When you empathize, you share and understand feelings others have. You take that understanding and use it to identify a problem you want to solve. Use these first two steps in the design thinking process to get started.</i>		
<b>Design Thinking: Ideate</b> <i>To ideate is to imagine a solution to the problem you want to solve. Learn how to use humour to become a great teammate, as well as working backwards in order to move forwards.</i>	Learn	5 min
<b>Design Thinking: Prototype</b> <i>Creating a prototype is an important part of the design thinking cycle because it allows you and your team to share a representation of your app with your stakeholders. Learn more about wireframing.</i>	Learn	5 min
<b>Design Thinking: Test</b> <i>Testing is important because you work with users and stakeholders to gain insights and feedback for your idea. Examine more information about feedback and how you can learn from your testers.</i>	Learn	5 min
<b>Knowledge Check: Put On Your Design Thinking Cap</b> <i>Think you know the basics of the design thinking cycle? Test your knowledge here!</i>	Quiz	3 min
<b>*Ambassador Touchpoint – Bootcamp (Online or in Person)</b>		
Ambassador will deliver a 'Design Thinking Bootcamp,' which introduces students to different concepts needed when designing apps and working backwards from a problem.  This can take place at any point in Section 3.		60 min
<b>SECTION 4: Understanding Apps - What is the Cloud?</b>		
<i>Introduction to the cloud, its benefits, and its significance in the world of technology. This can be covered individually or as a team.</i>		<b>15 minutes</b>
<b>MODULE</b>	<b>TYPE</b>	<b>TIME</b>
<b>The Mystery of the Cloud</b> <i>What is the cloud? What are the benefits to using it? This short kick-off video will give you some insight into what you will be learning about in this section.</i>	Video	1 min
<b>Introduction to the AWS Cloud</b> <i>Amazon Web Services has a long history with the cloud. Learn how it functions through a brief video overview.</i>	Video	3 min
<b>The Cloud and You</b> <i>You probably use the cloud way more than you know! Take a look at just some of the ways the cloud impacts your life on a day-to-day basis.</i>	Learn	4 min
<b>Benefits of the Cloud</b> <i>The cloud seems all well and good, but really, what is the benefit? See how the power of the cloud is harnessed to make sure information, data, and services are always available for users.</i>	Learn	4 min

<a href="#">Knowledge Check: Benefits of the Cloud</a> So, you think you know the cloud? Use this knowledge check to see if you can call yourself a cloud expert.	Quiz	3 min
<b>SECTION 5: Designing Your App - Sustainability and Accessibility</b>		
<i>This section focuses on sustainability and accessibility and how app ideas can benefit local communities, socially and environmentally. The Group Activity, Design and Presentation Exercise take approx. an hour and focus on using what the students have learned about accessibility to start designing their app wireframe.</i>		<b>2 hours</b>
<b>MODULE</b>	<b>TYPE</b>	<b>TIME</b>
<a href="#">Case Study 1: The Natural History Museums Urban Nature Project</a> <i>It has never been more important to make our towns and cities healthy and sustainable places to live. Watch this video to learn about the Urban Nature Project that the Natural History Museum in the UK is leading in partnership with AWS.</i>	Video	5 min
<a href="#">Improve People's Live with Technology</a> <i>Today's technology exists and evolves to simplify and automate daily tasks. This short kick-off will prepare you to start thinking about how technology can help us improve our world and the quality of life of those who live on it.</i>	Video	2 min
<a href="#">The Internet of Things (IoT)</a> <i>Did you know that today, traditional items like light bulbs now can access the internet? The Internet of Things, or IoT, makes it possible to use the cloud to take care of many simple tasks to make life easier for all.</i>	Learn	5 min
<a href="#">Accessibility and Mobility Challenges</a> <i>Individuals with accessibility and mobility challenges can get help from their friends! Meet Oscar, a service guide dog who assists Emily, a vision-impaired young lady, though her day at school using both his training and some supportive technology.</i>	Activity	5 min
<a href="#">Improving the Quality of Life through Sustainability</a> <i>Technology can be used to try and help solve some of the problems facing our Earth today. Look at some of the ways it's currently being used to address sustainability issues.</i>	Learn	5 min
<a href="#">Global Environmental and Climate Challenges</a> <i>What are some of the specific challenges facing our Earth today, and is there a way that technology can help address them?</i>	Learn	5 min
<a href="#">Amazon Sustainability Initiatives</a> <i>Examine what Amazon as a company is doing to try and meet the broad responsibility that comes with growth over the years.</i>	Learn	5 min
<a href="#">Benefits of Cloud Computing on the Environment</a>	Learn	5 min

<i>The cloud makes it easier for us to watch movies, listen to music, and share data. But did you know that cloud computing also has some definite benefits for the environment as well?</i>		
<a href="#">Improving the Quality of Life through Accessibility</a> <i>Technology has always had a place in trying to even the playing field for all individuals. Examine the different ways current technology is being used to assist those who might need a helping hand.</i>	Learn	5 min
<a href="#">Understanding Assistive Technology</a> <i>Although assistive technology is out there, you may not have had much experience with it. This module allows you to experience some of the different things that content creators keep in mind when trying to make sure all individuals can use their materials.</i>	Activity	5 min
<a href="#">Knowledge Check: Improve People's Lives with Technology</a> <i>After your journey through this section, see if you truly understand how technology, sustainability, and accessibility are connected!</i>	Quiz	2 min
<a href="#">Case Study 2: Studying Nature in the Natural History Museum Wildlife Garden</a> <i>Learn how the Natural History Museum in the UK is studying nature in their wildlife garden and effects of urbanisation on nature.</i>	Video	5 min
<a href="#">Designing Your First App</a> <i>Starting in your groups, you'll finalize your app's title, function, and audience. Then it's time to start thinking about design and function.</i>	Group Activity #2	25 min
<a href="#">Mock Up Your App, Getting Started</a> <i>Here's your chance to use a computer and start playing with designing an app's visual look. No coding experience is necessary.</i>	Design Exercise #1	10 min
<a href="#">Ideas and Tech</a> <i>For these two slides, you will focus your design and share your specific app ideas. Then you will present the different types of technology and services you'll rely on to make sure your app is a great experience for your users.</i>	Presentation Exercise #2	15 min
<b>SECTION 6: Designing Your App - Emerging Technologies</b>		
<i>In this section, students learn about emerging technologies like Artificial Intelligence (AI), Machine Learning (ML), and Augmented Reality (AR), and are introduced to different AWS technologies. Students have three activities to work through before their group activity where they create a storyboard and add more detail to their app wireframe.</i>		<b>2 hours 30 minutes</b>
<b>MODULE</b>	<b>TYPE</b>	<b>TIME</b>
<a href="#">Case Study 3: the Natural History Museums Nature Overheard</a> <i>Learn about the Natural History Museum's community science project 'Nature Overheard' investigating the link between noise pollution and insect populations using AWS technologies.</i>	Video	5 min
<a href="#">Dancing Robots: An Intro to Inputs and Outputs</a>	Activity	2 min

<i>Inputs and outputs are a crucial component of artificial intelligence and machine learning. See this concept illustrated with the use of a robot who loves to dance!</i>		
<a href="#">Artificial Intelligence and Machine Learning</a> <i>More than just industry buzzwords, the future of technology is fuelled by research into AI and ML. Learn more about these concepts and how they work.</i>	Learn	5 min
<a href="#">Race to the Stars: An AI/ML Knowledge Check</a> <i>How much do you know about AI and ML? Check what you know with a futuristic game where your reflexes will be tested as well as your brain.</i>	Quiz	3 min
<a href="#">Teamwork Skills: Communicating and Problem Solving</a> <i>While listening with empathy, it's possible to take what you've learned and use it to map out your course of action. See how empathy maps can be used with design thinking to envision and create great things.</i>	Activity	15 min
<a href="#">AWS GetIT Tech Card Videos</a> <i>Learn more about different AWS cloud-based services through different videos. See how these services can enhance your own technology ideas.</i>	Video	12 min
<a href="#">Key Concepts in App Design</a> <i>Dive deeper into the different types of services that you can use when designing your app.</i>	Learn	5 min
<a href="#">Telling A Story Using Data</a> <i>Collecting data is great, but what can you do with it once you have it? Look at different ways to collect and store information, and figure out how to make sense out of all of it.</i>	Learn	6 min
<a href="#">Using Word Webs</a> <i>A word web is a technique that you can use with your team to make connections and links to past knowledge. Learn more about how to use this technique to bring your ideas to life!</i>	Group Activity #3	20 min
<a href="#">Augmented Reality: An Introduction</a> <i>Augmented Reality, or AR, is a technology that you can carry around with you all the time, as long as you have a smartphone. This module will simulate different ways that you might use AR in the real world.</i>	Game	5 min
<a href="#">A Closer Look at Augmented Reality</a> <i>Now that you know what AR is, see how game makers, retail outlets, and schools do their best to leverage the technology and bring it right to you!</i>	Learn	5 min
<a href="#">Case Study 4: How Nature Overheard Works</a> <i>The last of our Natural History Museum's case studies, dive a bit deeper to find out how the Nature Overheard project works and how technology plays a large part in the process.</i>	Video	5 min
<a href="#">Mock Up Your App</a>	Group Activity #4	35 min



<i>Now's the time to take your ideas and visualize them using a process called wireframing. You'll see that this process will help others to understand your goals.</i>		
<b>Mock Up Your App, Deep Dive</b> <i>Get deeper into app mock-up using our next-level simulation. Not only will you choose the look, but you will include different functions as well!</i>	<i>Design Exercise #2</i>	15 min
<b>SECTION 7: Finalizing Your App Design</b>		
<i>In this final section, students finalize their wireframe design by gathering and reviewing feedback on their idea to revise and test their idea. At this point, students should focus on getting as much feedback from different user groups as they can and work on their final presentation. (See additional resources for groups to use and present their ideas back to their classes/school/ambassador – 'Ten tips for presenting your app design handout')</i>		<b>3 hours</b>
<b>MODULE</b>	<b>TYPE</b>	<b>TIME</b>
<b>Creating a Minimum Viable Product</b> <i>It's important to keep in mind that a minimum viable product (MVP) can still help you to get enough feedback from your users to iterate and improve.</i>	<i>Activity</i>	30 min
<b>Wireframing</b> <i>This is the opportunity to take your wireframe and other visual ideas and bring them into your presentation. Use your prior wireframe experience to enhance this slide in your portfolio!</i>	<i>Presentation Exercise #3</i>	30 min
<b>Mock Up Your App, Using Feedback</b> <i>In this exercise, you will look at different apps and the feedback they received, and determine the best way to use that feedback to make improvements. Great practice for the real thing!</i>	<i>Design Exercise #3</i>	30 min
<b>Gathering Feedback</b> <i>It's time to see what others think about your ideas! Getting feedback is an important part of the process, and learning what others recommend will only make you better.,</i>	<i>Group Activity #4</i>	30 min
<b>Revising Your App</b> <i>On these two slides, you'll have the opportunity to share the feedback you received. You will also share how you incorporated your feedback and the changes you made into your final app design.</i>	<i>Presentation Exercise #4</i>	30 min
<b>Introducing... Your App!</b> <i>You're just about done! Design your final slide as a pitch to get your target audience interested in your app. Once you're done, you're ready to share your great idea with others.</i>	<i>Presentation Exercise #5</i>	30 min
<b>*Ambassador Touchpoint – Optional</b>		
<i>Consider holding an internal competition (like 'Dragons Den/Shark Tank') to help decide which team's idea is submitted to the competition.</i>		30 min

Schools may invite their ambassador to review and give feedback on the teams' final app ideas. Please note, this is optional and may not be possible in all schools.		
<b>SECTION 8: The AWS GetIT Journey: Wrap-Up</b>		
A final video to congratulate students and celebrate their app designs. Certificates of completion are available.		<b>5 minutes</b>
MODULE	TYPE	TIME
<a href="#">Wrap-up</a> This module is the very last part of the AWS GetIT Journey. Students won't see it until the very end, when they are done. This video is a reminder that it is time for celebration and achievement.	Video	5 min

<b>SUPPLEMENTAL SECTION: Learn More About Cloud Technology</b>		
This section includes additional modules about cloud technology that students might be interested in learning about like Robotics, Machine Learning and Marketing your ideas.		<b>1 hour</b>
MODULE	TYPE	TIME
<a href="#">Technology Trivia</a> Test your knowledge and explore the important role of technology in the real world. Even if you don't know the answers, you'll still learn something from the game. Earn bronze, silver, and gold stars along the way for being correct. Can you earn the blue diamond?	Game	3 min
<a href="#">Careers in Tech</a> Remember being asked, "What do you want to be when you grow up?" Here is your chance to start thinking about the answer to that question. You'll get an introduction to various technological career choices in fields, such as the following: Space, Gaming, Fashion and Health.	Learn	4 min
<a href="#">Robotics in Everyday Life</a> Robots are all around you, even if you don't think you recognize any. Learn how robots are being used today, and take control of a robot named P.H.I.L. as he tries to complete his warehouse job.	Game	8 min
<a href="#">AI/ML and Self-Driving Vehicles</a> Movies and books present a future where vehicles drive themselves. In the present, car makers are already adding AI and ML elements to assist drivers. See what they are doing to get closer to the dream of a car that can drive itself.	Learn	5 min
<a href="#">Machine Learning with AWS Deep Racer</a> AWS DeepRacer gives you an interesting and fun way to get started with machine learning! Learn more about the program through this informational video.	Video	4 min
<a href="#">See the World with Oscar: A Virtual "Virtual Reality" Journey</a>	Game	15 min

<i>Our friend Oscar is ready to take you on a virtual journey around the world, simulating how 360VR works. You don't need a headset to enjoy this trip with your furry friend, but you can get an idea as to what can be done with virtual reality.</i>		
<a href="#">Amazon's recommendation algorithms</a> <i>How does Amazon know what it is that you want to buy? Learn how early systems determined the answer to that question, and how Amazon uses a more personal touch!</i>	Learn	3 min
<a href="#">Recommendation Systems in Everyday Life</a> <i>Recommendation systems are everywhere! Examine different situations where you might encounter a recommendation system, and how it benefits you.</i>	Learn	7 min
<a href="#">Marketing Your Ideas</a>	Activity	15 min

<b>Additional Resources</b>		
<i>These resources are available to download and complete as part of teams' portfolios.</i>		
<b>MODULE</b>	<b>TYPE</b>	<b>TIME</b>
<a href="#">Presentation Rubric</a> <i>Rubric that judges will use to evaluate the final competitions</i>	Handout	1 min
<a href="#">A Strong Team with a Bright Mission Worksheet</a> <i>Worksheet to accompany activity in core content</i>	Handout for Group Activity #1	20 min
<a href="#">Design Your 1<sup>st</sup> App Worksheet</a> <i>Worksheet to accompany activity in core content</i>	Handout for Group Activity #2	20 min
<a href="#">Wireframe Your App Worksheet</a> <i>Worksheet to accompany activity in core content</i>	Handout for Group Activity #3	20 min
<a href="#">Feedback Worksheet</a>	Handout for Group Activity #4	20 min
<a href="#">Ten Tips for Presenting Your App Design</a> <i>To help prepare students for the final competition presentations</i>	Handout	20 min

## Appendix: UK Specific Curriculum Alignment

<p>Meeting the National Curriculum in England</p>	<p><b>Careers Education</b> Enables schools to meet statutorily recommended Gatsby Benchmarks of Good Career Guidance, in particular:</p> <ul style="list-style-type: none"> <li>• Benchmark 2: providing opportunities for students to learn from career and labour market information about careers in Tech</li> <li>• Benchmark 4: linking curriculum learning for Computing to STEM careers</li> <li>• Benchmark 5: offering encounters with employees from Amazon and Amazon Web Services, through support and mentorship from an AWS GetIT Ambassador</li> </ul> <p><b>KS3 Computing Curriculum</b></p> <ul style="list-style-type: none"> <li>• Supports KS3 learners to undertake a creative project in designing an 'app for good' through a series of modules that equip pupils to use computational thinking and creativity to understand and change the world.</li> <li>• Students will develop digital skills, gain insights into technologies, and explore the limitless possibilities of the Cloud whilst selecting, using, and combining multiple applications to achieve challenging goals, including collecting and analysing data to meet the needs of their chosen users.</li> </ul>
<p>Fulfilling the Four Purposes in the New Curriculum for Wales</p>	<p>Available in both Welsh &amp; English the programme develops the skills integral to the Four Purposes:</p> <ul style="list-style-type: none"> <li>• <i>Informed citizens: The programme aims to foster ethical responsibility within the local community by engaging students in designing an 'app for good'.</i></li> <li>• <i>Enterprising: AWS tech professionals offers students invaluable access to mentorship, real-world insights, and industry expertise, empowering them to become enterprising, creative contributors fully prepared for success in both life and work.</i></li> <li>• <i>Capable learners: Through exposure to diverse experiences, the programme nurtures ambitious and creative thinkers while also providing a student-led learning experience helping them take charge of their learning.</i></li> <li>• <i>Confident individuals: By working in teams, presenting ideas, and collaborating effectively, the programme helps students develop confidence in themselves and their abilities.</i></li> </ul>
<p>Meeting the ICT Levels of Progression (Level 5) in the Northern Ireland Curriculum</p>	<ul style="list-style-type: none"> <li>• Empower through Exploration: Students will actively research and identify pressing issues within their local community, providing them with a unique opportunity to drive real and meaningful social change within their school and the broader community.</li> <li>• Inspire Creativity through Expression: By working collaboratively in groups, students will not only develop their design skills but also be encouraged to think creatively and innovatively while designing their 'app for good.'</li> <li>• Foster Effective Collaboration through Exchange: Through the process of assigning responsibilities to different team members, students will learn the value of teamwork, cooperation, and effective communication, ensuring a seamless development process.</li> </ul>

	<ul style="list-style-type: none"><li>• Cultivate Growth through Evaluation: Students will gain valuable insights by reflecting on their app portfolio design, actively seeking, and incorporating constructive feedback received during presentations, leading to continuous improvement and refinement.</li><li>• Showcase Progress through Exhibition: Throughout the program, students will continually refine their work, creating an impressive display of progress and dedication, showcasing their commitment to developing a high-impact app that addresses real-world challenges.</li></ul>
<p>Meeting Significant Aspects of Learning for Technologies in the Scottish Curriculum for Excellence</p>	<p>The programme provides scope for developing technological skills and knowledge and understanding towards the 13 significant aspects of learning for Technologies including:</p> <ul style="list-style-type: none"><li>• Awareness of technological developments (Past, Present and Future)</li><li>• Impact, contribution, and relationship of technologies on business, the economy, politics, and the environment.</li><li>• Understanding the world through computational thinking</li><li>• Understanding and analysing computing technology</li><li>• Designing, building and testing computing solutions</li><li>• Designing &amp; constructing models/products</li><li>• Representing ideas, concepts and products through a variety of graphic media</li></ul>