ACS ICT EDUCATORS PROGRAM

DIGITECH AND ICT ACROSS THE CURRICULUM

acs.org.au /ict-educators.html

INTRODUCTION

ACS is the peak body for IT professionals. They support all IT professionals – including educators.

ACS ICT Educators is a program to support the implementation of the Digital Technologies Curriculum. We connect with teachers across Australia.

Create resources and help build scope and sequences and lesson plans.

We have a dedicated platform to help connect teachers.

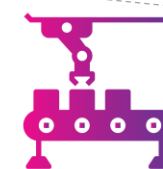acs.org.au /ict-educators.html

EVALUATING TECHNOLOGY

EDUCATORS
Knowing our students.
Knowing our pedagogy.

CURRICULUM
Honor the Curriculum.
Know what requirements
we need to fulfill.

TECHNOLOGY
Allows you to evaluate the technology for your
purpose. Choose the right tool for the task.

EVALUATING TECHNOLOGY

PEDAGOGY
Does the content accommodate for individual differences?

CURRICULUM
Can the technology be used within another subject area of the curriculum?

ASSESSMENT & FEEDBACK
When the learner is incorrect, does the technology give instant feedback?

INTERFACE & DESIGN
Can content such as music and animations be controlled by the user (turned off and on)?

USABILITY
Can students use the program independently after the first use?
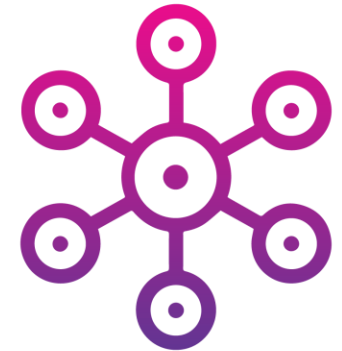
INTEGRATING DIGITAL TECHNOLOGIES CURRICULUM

The impact of technology on society. How changes to technology have supported growth.

Bringing real life examples and adapting them to the classroom.

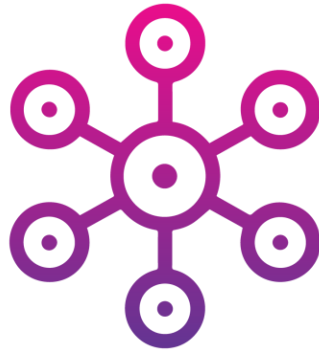Allows students to explore real life scenarios to create authentic learning purposes.

See relevance when learning about topics.

INTEGRATING DIGITAL TECHNOLOGIES CURRICULUM

When planning ask the question - how has technology influenced that topic or concept?

How the Digital Technologies Curriculum can be embedded in other learning areas. And provide meaningful examples to teach the curriculum.

'Not Impossible: Project Daniel'

Video Source:
https://www.youtube.com/watch?v=SDYFMgrjeLg

INTEGRATING DIGITAL TECHNOLOGIES CURRICULUM

HARDWARE AND SOFTWARE

Is there room to look at the hardware and software of technology?

DATA

What data that can be collected?

COLLABORATION

Can they use technology to work on project together?

DESIGN

Is there room for students to design something new?

INTEGRATING DIGITAL TECHNOLOGIES CURRICULUM

ROBOTICS

Can robotics and programming be used at a method to solve a problem?

PROBLEM SOLVING

Is there a problem based on specific themes students can solve?

COMMUNITY NEEDS

How can their solutions help the school community and wider community?

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ACTIVITIES

FAIRY TALES & THE 3 WAYS OF THINKING

Watch the story of Rapunzel. Instead of the Prince climbing up the hair, draw a digital system that will get the prince up the tower.

HEALTHY BOTS

Imagine a robot does your food shopping for you. Program your bot to only pick up healthy foods.

ACTIVITIES

HELPING ANIMALS

Evaluate screen shots of apps and websites that support animal sustainability. Create your own based on an animal of your choice.

PERFECT PLANTS

Using the robotics. Go for a walk and collect data about the best place to plant a been plant. Base you data collection on temperature.

ACTIVITIES

NATURAL DISASTERS

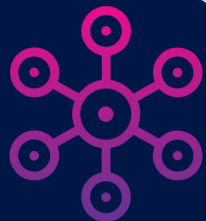Use the robotics shake table to test your building prototypes to see if they can withstand earthquakes.

ENHANCING COMMUNITIES WITH MINECRAFT

Look at how Block by Block uses Minecraft to give people a voice when designing parts of a community. Design a space that is accessible for everyone.

ACTIVITIES

GETTING CONNECTED

How can you provide internet access to remote communities. Research about internet speeds. Then use Minecraft to design your network.

SOCIAL DATA

Read about how Marine Scientists have called on social media to collect data. Learn to upload and use Spreadsheet program to analyse data.

ACTIVITIES

CREATING A PODCAST

Create a survey you will give to your stakeholders to help you understand the best topics to include in that podcast.

CREATING ENTREPRENEURS

Create an app that you'd like to create to solve a problem and make you money. What would that app do and what would it look like?

PROFESSIONAL LEARNING

Technologies Across the Curriculum

Curated and collated professional learning to explicit help with integrating technologies across the curriculum.

We have done this with curriculum topics and boarder tech topics too.

This will continue to grow.

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https://www.acs.org.au/ict-educators.html

DEDICATED FORUMS
Connect with teachers and build your professional network

CONNECT WITH CATHERINE
catherine.newington@acs.org.au

RESOURCE CENTRE
For F-10 Digital Technologies Curriculum related resources

acs.org.au /ict-educators.html