

Digital Technologies Hub - Auditing capacity



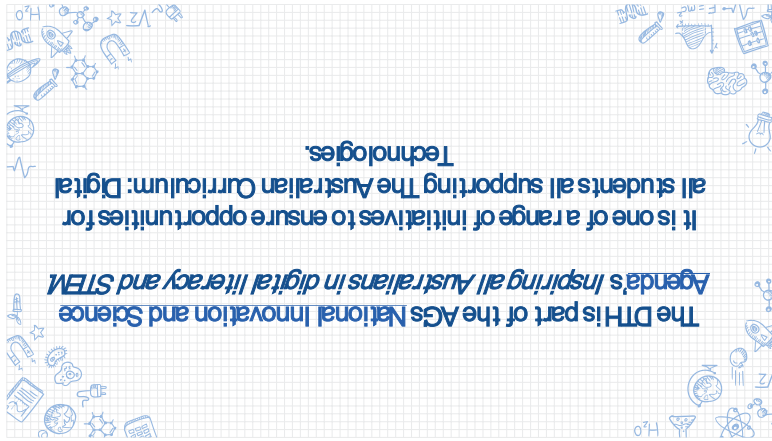
Introduction

DT Hub Home page: www.dthub.edu.au



The DTH is part of the AGS National Innovation and Science Agenda's *Inspiring all Australians in digital literacy and STEM*

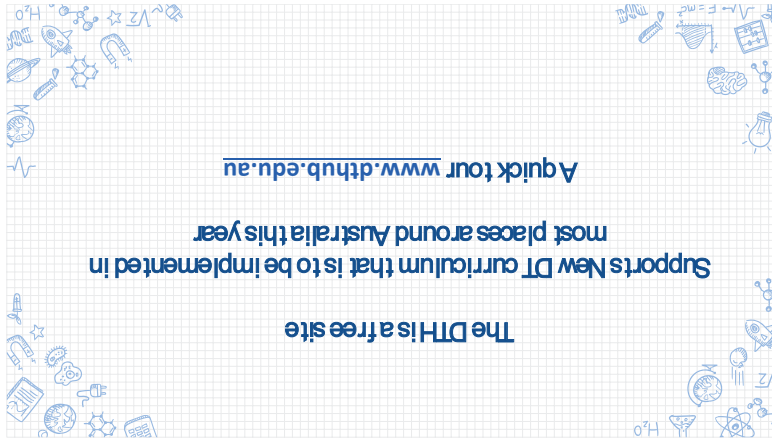
It is one of a range of initiatives to ensure opportunities for all students all supporting The Australian Curriculum: Digital Technologies.



The DTH is a free site

Supports New DT curriculum that is to be implemented in most places around Australia this year

A quick tour www.dthub.edu.au



Knowledge set

By the end of this session we will...

- Have an understanding of the tech needs of the DT curriculum
- Have thought about different models (integrated/ explicit) of designing the DT curriculum
- Have ideas about how to build teacher capacity and seek outside support



Mindset



Growth, Creative, Connecting, listening, asking questions



Skillset

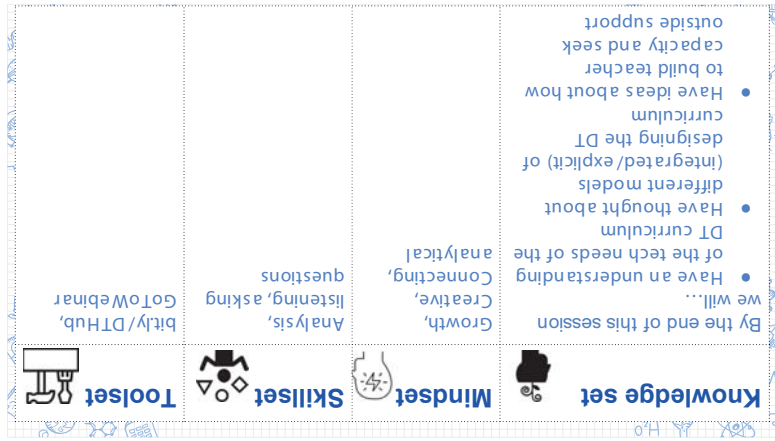
Analysis, asking questions



Toolset



Got to Webinar, bit.ly/DT Hub



Digital Technologies specifically aims to develop the knowledge, understanding and skills to ensure that, individually and collaboratively, students:

- design, create, manage and evaluate sustainable and innovative digital solutions to meet and redefine current and future needs
- use computational thinking and the key concepts of abstraction; data collection, representation and interpretation; specification, algorithms and implementation to create digital solutions
- confidently use digital systems to efficiently automate the transformation of data into information and to creatively communicate ideas in a range of settings
- apply protocols and legal practices that support safe, ethical and respectful communications and collaboration with known and unknown audiences
- interactions within and between information systems and the impact of these systems on individuals, societies, economies and environments.

Digital Technologies Curriculum

Auditing Technology

- # Digital World** (Red book icon)
- Authentic use of technology** (Green tag icon)
- Authentic audience for literacy** (Grey shield icon)
- Develop thinking skills** (Orange notepad icon)
- Integrated STEAM projects** (Blue speech bubble icon)
- Enhance numeracy** (Purple pie chart icon)


!Pads Chromebooks Laptop Trolley BYOD BYOB

UNPLUGGED CS

Computer Science without a computer



"IF TETRS HAS TAUGHT US ANYTHING, IT IS THAT UNCONNECTED CURRICULUM CAN PILE UP, BUT LINKING ACROSS THE CURRICULUM CAN BE A BIG WIN AND RELIEVE TIME PRESSURE"



Explicit -

- X Lifts level of importance
- X "Easier" to assess (?)
- X More resources available for explicit teaching

Explicit or Integrated?

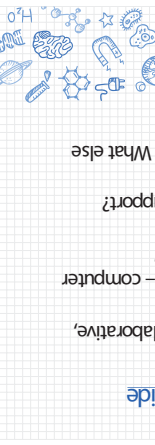
Integrated -

- X Less time pressure
- X Learning in context
- X Merging on knowledge, mindset, skillset and toolset




Auditing Curriculum






Digital Learning Now! Blended Learning Implementation Guide

- What kind of learning are we designing this infrastructure for – collaborative, creative, consumption of resources?
- What are the minimum viable and maximum desired device ratios – computer labs, laptop trolleys or BYOD (bring your own multiple devices)?
- How do we fund access – leasing, purchasing, BYOD, ?
- How do we fund support – external provider, in-house technical support?
- What level of access to the Internet do learners need?
- How does our infrastructure help to keep our learners safe online? What else would we need to do?





Bertram Primary School

900 iPads





McKinnon Secondary College

2500 managed Chromebooks




code the future

Parents and the school community!

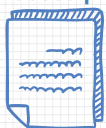
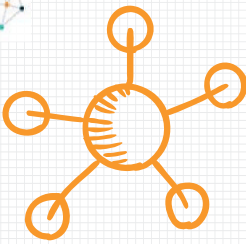

Student mentors

Other sources of expertise




Digital Technologies Hub


Lesson sequences

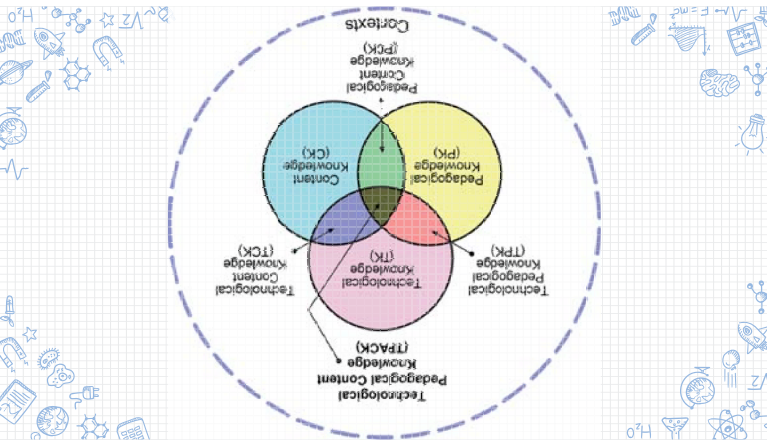
Education Services Australia

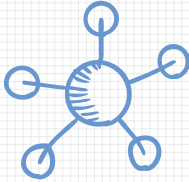


Resources / Scootle




Case studies & advice




Auditing Expert Capacity



Integrated STEAM Unit at Minibah Primary - Survivor



Hexagonal Curriculum Planning - St Mel's Campsie



THANKS!

Any questions?

You can contact us at

- X digitaltechshub@esa.edu.au
- X Or contact Chris Hart on
- X chris@unstucklearning.com



We would love more of your feedback & suggestions!

digitaltechshub@esa.edu.au

- X [Digital literacy grants - <http://education.gov.au/digital-literacy-grants-school-grants-disg>](http://education.gov.au/digital-literacy-grants-school-grants-disg)
- X [Early learning projects - <https://www.education.gov.au/nisa-early-learning-projects>](https://www.education.gov.au/nisa-early-learning-projects)
- X [Early learning initiatives](https://www.education.gov.au/nisa-early-learning-initiatives)
- X National Online Computing challenges – info coming later this year
- X [CSERMooOS <https://csermooos.adelaide.edu.au/mooos/>](https://csermooos.adelaide.edu.au/mooos/)
- X [Lending library <https://csermooos.adelaide.edu.au/library/>](https://csermooos.adelaide.edu.au/library/)
- X [PL in a Box <https://csermooos.adelaide.edu.au/pdbox/>](https://csermooos.adelaide.edu.au/pdbox/)
- X [digit \(<http://www.amt.edu.au/information/for-students/digit>\)](http://www.amt.edu.au/information/for-students/digit)