Introduction

The DTH is part of the AG’s 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.

Digital literacy grants:

- Grants of between $10,000 and $50,000

Early learning projects:

- University of Canberra, ELSA, Let’s Count Little Scientists

National online computing challenges – Grok Learning and Sydney Uni (Years 5-7)

CSER:

- MOOCs, Lending library and PL in Box

Digit:

- Residential camps and mentoring Yrs 8-9, algorithmic thinking and coding

ICT professional in Schools: a mentor working in schools

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

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

Knowledge set

- Growth,
- Creative,
- Connecting,
- Analytical

Analysis, listening, asking questions

bit.ly/DTHub, GoToWebinar
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 and effectively 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
- apply systems thinking to monitor, analyse, predict and shape the interactions within and between information systems and the impact of these systems on individuals, societies, economies and environments.

Integrated STEAM projects
- Develop thinking skills
- Enhance numeracy
- Authentic audience for literacy
- #Digital World

Digital Technologies

Curriculum

Byod
BYOD
IPads
Chromebooks
Laptop Trolley
Computers
McKinnon Secondary
2500 managed Chromebooks

Bertram Primary School
900 iPads

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 BYO (M)D (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?

Digital Learning Now! Blended Learning Implementation Guide

Auditing Curriculum

Explicit or Integrated?

Explicit:
- Lifts level of importance
- “Easier” to assess (?)
- More resources available for explicit teaching

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

“IF TETRIS HAS TAUGHT US ANYTHING, IT IS THAT UNCONNECTED CURRICULUM CAN PI LE UP, BUT LINKING ACROSS THE CURRICULUM CAN BE A BIG WIN AND RELIEVE TIM E PRESSURE”
Student mentors and the school community

Digital Hub Technologies

Integrated STEAM Unit at Minimbah Primary - Survivor

Auditing Expert Capacity

S.M.E.S. Campsite

Hexagonal Curriculum Mapping - Survivor
Digital literacy grants -

Early learning projects -

National Online Computing challenges –
info coming later this year

CSER MOOCs
https://csermoocs.adelaide.edu.au/moocs/

Lending library

PL in a Box
https://csermoocs.adelaide.edu.au/plinbox/

We would love more of your feedback & suggestions!
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THANKS!
Any questions?
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