

CROSS-CURRICULAR- NEW TEACHING AND LEARNING?

Curriculum Responsibilities

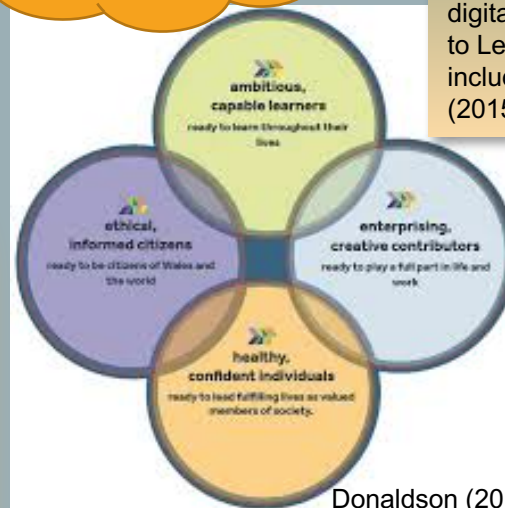
Priority has already been given to Literacy and Numeracy (LNF) but with the change in the world there is a conclusion that digital competency is increasingly fundamental to learning and life and should have similar status to that of Literacy and Numeracy.

Donaldson (2015)

Cross-curricular approaches to teaching and learning

"This approach is defined by combining skills, knowledge and attitudes of a number of different disciplines that are applied to a single experience, problem, question, theme or idea, we are working in a cross curricular way."
(Barnes, 2010, p.10)

Four CURRICULUM PURPOSES



Donaldson (2015)

Children and young people should have their learning developed across the curriculum through three Cross-curriculum Responsibilities that should be the duty of all teachers: literacy; numeracy; and digital competence. A digital competence framework and an accompanying 'Routes to Learning Digital Competence' should be developed and be included as a Cross-curriculum Responsibility Donaldson (2015)

New Curriculum, New Wales



Theme and project based learning

Example Theme- Solar System Numeracy (WAG, 2015)

- Developing numerical reasoning- Identify processes and connections
- Using measuring skills- Length/Weight/capacity/area/time/temperature
- Using data skills-Collect and record data. Present and analyse data. Interpret results Donaldson (2015)

Literacy (WAG, 2015)

- Oracy-Developing and presenting information and ideas, Listening, Collaboration and discussion.
- Reading- Locating, selecting and using information. Responding to what has been read
- Writing- Organising ideas and information. Writing accurately Donaldson (2015)

Digital Competence (WAG, 2018)

- Producing-creating
- Producing-evaluating and improving Donaldson (2015)

Areas Of learning

- Health and Wellbeing
- Language, literacy and communication
- Science and technology
- Expressive arts
- Mathematics and numeracy
- Humanities

Multi Disciplinary CCL

- Supports transfer and learning of skills (Hayes, 2008)
- Teaches children to develop thinking and reasoning Marzano (1991)

One stimulus used to generate deep learning in two subjects

Multi Disciplinary CCL



Barnes 2011

Linked to the same

LITERACY

Cross-curriculum

Competence in literacy, including competence in the spoken word, syntax and spelling, is essential for learning across the curriculum. The key to developing command of these skills lies not in repetition and drill for significant periods of time during the school day but in a sound understanding of their essential components supported by developmentally appropriate teaching and learning and rich contexts within which they can be reinforced, extended and applied. Donaldson (2015)

NUMERACY

Cross-curriculum

Similarly, numeracy, including arithmetical and data-handling skills, is deployed widely across the curriculum, and competence in numeracy is essential for independent living and work. Children and young people need regular opportunities to deepen their understanding of number. Donaldson (2015)

DIGITAL COMPETENCE

Cross-curriculum

Digital competence plays an increasingly powerful role in the lives of children and young people, for communication, networking, information, leisure and entertainment as well as for an increasing range of transactions and educational applications. The ability to use digital technology skills creatively is an increasingly common feature of the modern workplace. Donaldson (2015)

EXPRESSIVE ARTS

HUMANITIES

HEALTH AND WELLBEING

SCIENCE AND TECHNOLOGY

MATHEMATICS AND NUMERACY

LANGUAGES, LITERACY AND COMMUNICATION