



**BOARD OF EDUCATION OF
SCHOOL DISTRICT NO. 46 (SUNSHINE COAST)**

EDUCATION COMMITTEE

AGENDA

Wednesday, May 25, 2016 from 1:00-2:30 p.m.
School Board Office – Gibsons, BC

- 1) Strategic Plan: 3.f. – Sechelt Indian Band and Squamish Nation
- 2) Strategic Plan: Goal 1.j. – Indigenous and Other Cultures
- 3) Strategic Plan: Goal 1.h. – Experiential Learning/Inquiry
- 4) Strategic Plan: 1.e. – Physical Health
- 5) Parent Engagement (*standing item*)

MAKERDAY

Taking Making into Your Schools

 a place of mind
THE UNIVERSITY OF BRITISH COLUMBIA
Faculty of Education
Okanagan Campus

 innovative
learning
centre
innovativelarningcentre.ca

 ita
YOUR TICKET.



MAKER DAY CONCEPT

Presenter:

Susan Crichton, Director,
Innovative Learning
Centre (ILC)

Director, Faculty of
Education

UBC's Okanagan Campus



**Five
Elements**



MAKERDAY

TWO PARTS TO MAKING

- a pedagogical orientation
AND
- an intentional mindset



MAKERDAY

PEDAGOGICAL ORIENTATION

- Supporting personalized, **constructionist** learning
- By applying content and skill sets to 'real world' **design challenges**
- While **integrating** curricular competencies (i.e., ADST or STEM_x frameworks)

MAKERDAY

SUPPORTING PERSONALIZED CONSTRUCTIONIST LEARNING

Simple
Prototyping



Introduction to
Fabrication



MAKERDAY

SIMPLE PROTOTYPING

- Cardboard
- *Pantry*: Recycled Consumables
- *Tool Station*: Simple Hand Tools



MAKERDAY

INTRODUCTION TO FABRICATION

Adds more robust
consumables/tools

- *Pantry*: PVC pipe
and Doweling
- *Tool Crib*: Power
Tools



MAKEDAY

APPLYING CONTENT AND SKILL SETS

A well-crafted **Design
Challenge** fosters

- Heads-in (content)
- Hands-on (skill sets)
- Demonstrations of
how we know things



15 BELOW COAT

MAKEDAY

APPROACHES TO CHALLENGES



Inquiry Question
encourages
exploration of and
engagement with
the curriculum



Problem Solving
introduces
five types
of knowledge:
facts, concepts,
strategies,
procedures and
beliefs



Scenarios
helps
visualize context:
environment,
social, technical,
political and
economic concerns

MAKERDAY

INTEGRATING CURRICULAR COMPETENCIES

Integrated framework
examples:

- **ADST:** Applied Design, Skills and Technologies
- **STEM_x:** Science, Technologies, Engineering, Mathematics – User Experiences



MAKERDAY

INTENTIONAL MINDSET

- Nurturing a flow of innovative and creative thinking
- Fueled by curiosity
- Supported by ‘thinkering’ – a nimble, lateral and connected thinking
- Gained through personal empowerment and agency
- Building confidence for risk-taking and exploration

MAKERDAY

WHAT IS DESIGN THINKING?

A way of thinking through a series of discussions and negotiations informing the collaborative development of a solution

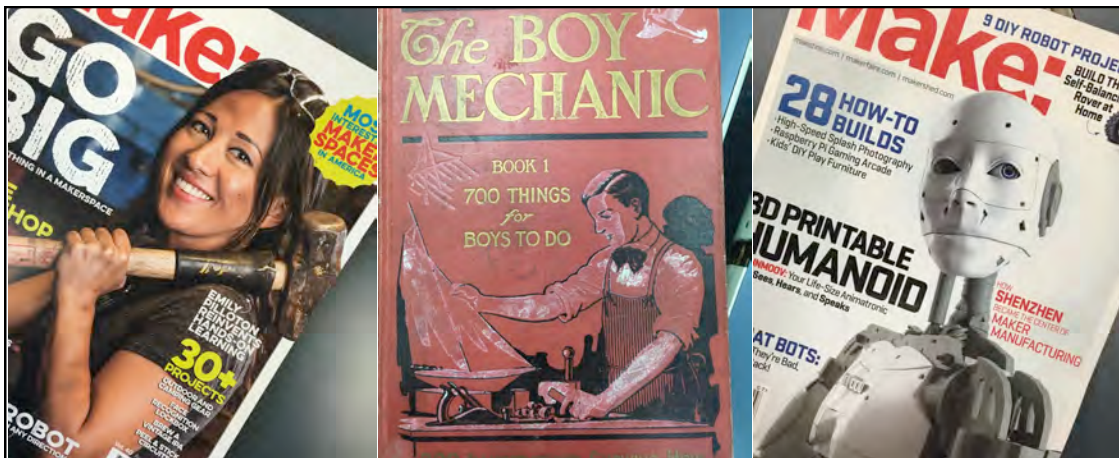


MAKERDAY

DESIGN IS OPTIMISM



MAKERDAY



“MAKER MOVEMENT”

We've come a long way...

MAKERDAY



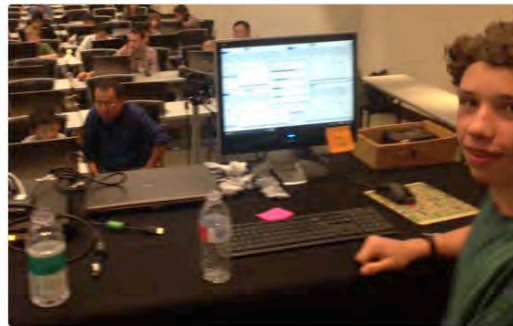
MAKER DAY PLANNING

“Getmakered” meets SD46 Staff



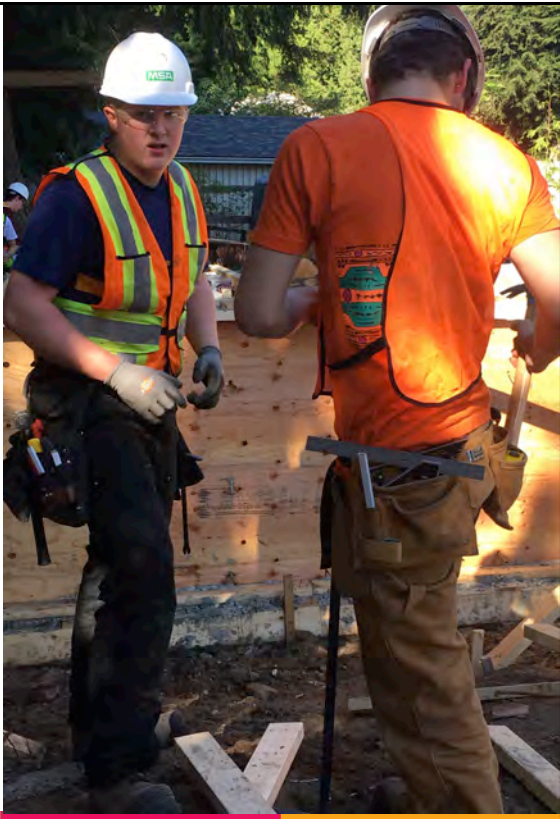
REAL AUDIENCE

Owyn Cramer presenting at the Open Source Convention Austin, TX



ACE IT

Students designing,
building, testing,
proving



ACE IT

Personalized - Mastery - Praxis

MAKERDAY