



**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

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- 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



ita  
YOUR TICKET.



# MAKER DAY CONCEPT

Presenter:

Susan Crichton, Director,  
Innovative Learning  
Centre (ILC)

Director, Faculty of  
Education

UBC's Okanagan Campus



Five  
Elements

The logo for 'Five Elements' is enclosed in a hand-drawn, dark blue rectangular border. The text 'Five Elements' is written in a bold, orange, sans-serif font.

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<sub>x</sub> frameworks)

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# SUPPORTING PERSONALIZED CONSTRUCTIONIST LEARNING

Simple  
Prototyping



Introduction to  
Fabrication



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## SIMPLE PROTOTYPING

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



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## INTRODUCTION TO FABRICATION

Adds more robust  
consumables/tools

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



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## 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

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# 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

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## INTEGRATING CURRICULAR COMPETENCIES

Integrated framework  
examples:

- **ADST:** Applied Design, Skills and Technologies
- **STEM<sub>x</sub>:** Science, Technologies, Engineering, Mathematics – User Experiences



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# 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

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## WHAT IS DESIGN THINKING?

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



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# DESIGN IS OPTIMISM



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## “MAKER MOVEMENT”

We've come a long way...

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# MAKER DAY PLANNING

“Getmakered” meets SD46 Staff

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# REAL AUDIENCE

Owyn Cramer  
presenting at the  
Open Source  
Convention  
Austin, TX

 **Diane Mueller**  
@pythondj Following

#oscon2016 @getmakered owyn cramer leading  
#3DSelfie #3D #3dprinting workshop at  
#OSCON kids day



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# ACE IT

Students designing,  
building, testing,  
proving



# ACE IT

Personalized - Mastery - Praxis

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