

Inquiry & interest-based approaches for learner engagement: instructional perspectives from academic & public libraries



<http://knowyourmeme.com/photos/19246-this-is-relevant-to-my-interests>



<http://knowyourmeme.com/photos/235-this-is-relevant-to-my-interests>

Introduction/Welcome

Martina



Holly





 **MacEwan**
UNIVERSITY



 **epl.ca** EDMONTON PUBLIC LIBRARY
Spread the words.

Introductions - Where participants are from today

Tufts University

University of Toronto

University of British Columbia

MacEwan University

The King's University

Government of Alberta

University of Alberta - Rutherford library

Southern Alberta Institute of Technology

University of Western Ontario

Strathcona County Library

University of Education, Winneba, Ghana

University of Ottawa

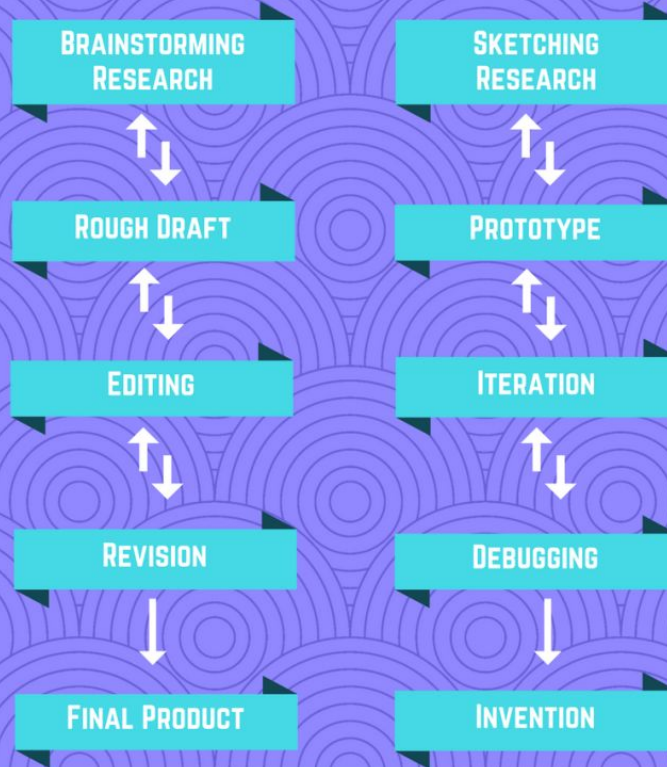
Northern Lights Library System

Workshop Outline

Welcome + Challenge	Getting to Know You Challenges: Design a ??? Robot Fashion show
Explore + Demonstrate	Brainstorm, explore materials & technology
Make + Experiment	Design, prototype, test
Share + Celebrate	Pitch, strut, cheer!

WRITING & MAKING

PROCESS



Learning Goals

Design Challenge

Goal: Familiarity with technology concepts

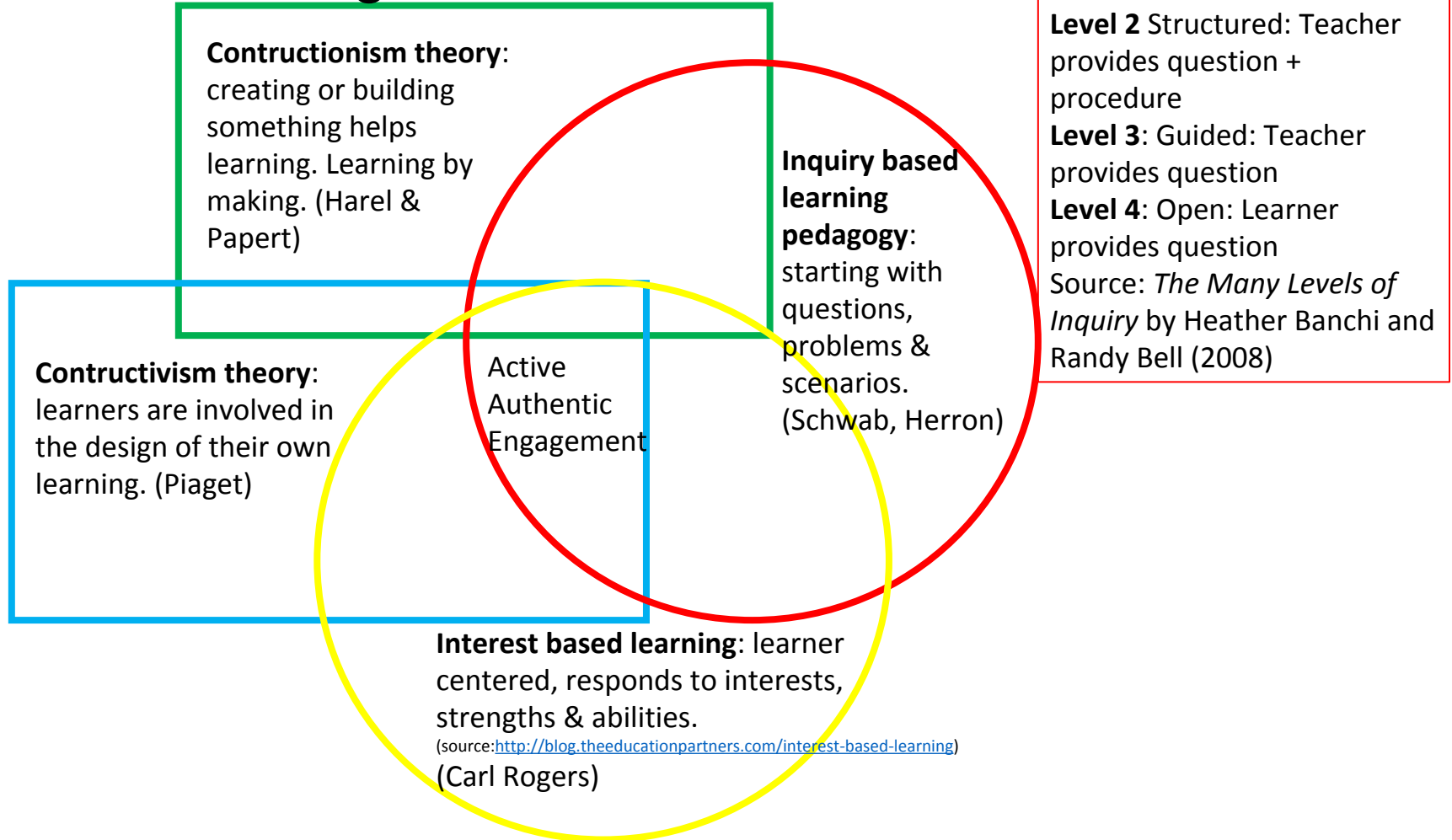
Robot Fashion Show

Goal: Familiarity with coding concepts

Workshop Goal: Experience interest & inquiry based learning



Theoretical Background





Getting to know you

Go to: www.menti.com Code: 55 64 45



Design Thinking Activity

In a small group...

- Choose a random SILLY word and TECHNOLOGY word

In the next 15 minutes...

- Brainstorm a product or service that will make life better AND combines the two words.
- Develop a prototype of your idea using the materials provided
- Develop a pitch for your idea aimed at a large technology investor (e.g., Google)

Introducing Dash and Dot

- Made by Wonder Workshop (early Kickstarter).
- At least one pair live at each branch of EPL.
- Programmed with Blockly.
- Learn-to-code robots for 6 - 14 year olds, or anyone who loves cute robots.



With a small group, work together through the exercise to learn the basics movements, actions, and logic to animate the robots.



Dash and Dot Exercise using Blockly app

1. Make Dash move forward.
2. Add a command to make Dash move backwards.
3. Add a command to make Dash talk or laugh after movements finish.
4. Make Dash move in a triangle.
5. Make Dot trigger when Dash starts the triangle.
6. Make Dash repeat the triangle, without repeating the movement blocks.

Drive

Sound Animations

Start

Control

START ▶

Robot Fashion Show

Activity adapted from:

<https://www.makewonder.com/play/ideas/34>

With a small group...

- Select an iPad Mini and a Dash robot.
- Choose a favourite literary character. Design a costume **inspired** by that character for your Dash (and optionally Dot) using materials provided.
- Design a stylish “catwalk strut” for your Dash, that must include:
 - 1 event activated by Dot
 - 2 changes in direction
 - 1 “signature move”
 - 1 loop

If you get stuck...

- Have you tested it yet?
- Has another group figured it out?
- Is there a code example online?
- Check in with the facilitators!

Character Ideas

Hermione Granger - Harry Potter

Doc Brown - Back to the Future

Zoolander

Minions

Jackie Kennedy

Vivian - Pretty Woman

Mary Poppins

Nina - Black Swan

Lady Gaga

Beyonce

Furiosa - Mad Max

Juliet

Dorothy - wizard of oz

Little Red Riding Hood

Rose - Titanic

Padme Amidala - Star Wars

Reflection Questions - www.menti.com 55 87 99

- Which interests of yours were you able to pursue today?
- What challenges or problems did you overcome?
- What is one thing you are going to try in your instruction?
- What did you find most enjoyable about the workshop today?
- What did you learn to avoid or what would you do differently if implementing a similar activity in your context?

Facilitation Techniques

- Focus on learner's questions and interests
 - Leave room to respond to these
- Provide a balance of structure vs. room for creativity
 - Boundaries help creative thinking
- Position learners as teachers
 - Ask those who know, or discover, to share
- Self-reflection/assessment
 - Ask learners to identify what they learned
 - Ask learners to identify what others (peers) learned

Thanks for joining us today!

Any questions?

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