EDU 210-211

COMPUTATIONAL THINKING LEARNING EXPERIENCE

Purpose: The purpose of the Computational Thinking Learning Experience is to:

- Apply what you have learned in EDU 210/211
- Develop a learning experience you can use with children
- Integrate computational thinking into your work with children

Task: To create a learning experience that embeds computational thinking

Steps: Follow these steps to create and share a computational thinking learning experience:

1. Reflect on when/how/where you can embed computational thinking into your curriculum
2. Review examples of learning experiences that integrate computational thinking
3. Brainstorm a learning experience that integrates computational thinking
4. Ensure you include the 4 elements of computational thinking in your learning experience
5. Think of how you will share the activity with your peers

This activity has 2 parts.

1. Developing a Learning Experience
2. Sharing your Learning Experience

Developing an Activity

Create learning experience(s) that you can use with your students which embeds computational thinking. The learning experience(s) should:

1. be one you can use with your students
2. include all components of computational thinking – abstraction, algorithms, decomposition, and patterns
3. list the learning outcomes & how they will be measured
4. identify the materials students needed for the learning experience
5. describe the steps of the learning experience
6. be 1 learning experience, or multiple linked/connected learning experiences
7. be shared as a paper, video, graphic, digital, etc.

Sharing your Learning Experience

You will share your learning experience with colleagues in our learning community.

The Computational Thinking Learning Experience will be assessed using the Self-Assessment Checklist below:

TASK	DOES/IS YOUR LEARNING EXPERIENCE	Y/N
LEARNING EXPERIENCE	Sharable with your students in your role/work?	
LEARNING OUTCOMES	Describe learning outcomes & how they will be assessed?	
RESOURCES	Include all materials & steps?	
COMPUTATIONAL THIKING ELEMENTS	Include the computational thinking elements abstraction, algorithms, decomposition, & patterns?	
SHARING	Shared with colleagues in learning community clearly & coherently?	

TASK	DOES THE LEARNING EXPERIENCE:	YES/NO
ACTIVITY	Be shared with your students in your role/ work?	
LEARNING OUTCOMES	Describe learning outcomes and how they will be assessed?	
RESOURCES	Include the materials & steps for the learning activity?	
ELEMENTS OF COMPUTATIONAL THINKING	Include all components of computational thinking into the experience – abstraction, algorithms, decomposition, and patterns?	
SHARING	Share the activity with other members of the learning community in a clear, coherent, manner?	