

Lesson Title:	Subject:	Grade(s):
Blender Introduction - Layout /	Digital Media / Graphic Design (ADST)	8-12
Name:	Date:	Lesson #
		1.1

Rationale:
(lesson context and reasons why lesson matters)
These lessons are intended to provide a basic understanding of the Blender software, enabling students to use these basic understandings to allow them to develop greater skills and 3D modeling in future projects.

Curriculum Connections : https://curriculum.gov.bc.ca
Core Competency
Creative Thinking
Curricular Competency
<p>Identify appropriate tools, technologies, materials, processes, and time needed for production.</p> <p>Construct prototypes, making changes to tools, materials and procedures as needed</p> <p>Identify and assess skills needed for design interests, and develop specific plans to learn or refine them over time.</p>
Content:
<p>Methods and principles of 3D Graphic Design</p> <p>2D, 3D, Audio, and video digital media editing tools, including paid, freeware, open source, and cloud-based solutions.</p> <p>Tools and techniques for image manipulation</p>

Learning Intentions	Activity	Assessment
Students Will be able to:		
Understand the basics of Blender, identify the tools necessary to use the program and begin creating basic shapes, resizing, rotating and scaling them.	Students will be taught the basics of Blender, and will then have to create a snowman with eyes, a nose, and be facing the camera.	Formative: Teacher will evaluate student progress through walking around and ensuring students are focused and working on activity.

Prerequisite Concepts and Skills:
For student success
Basic understanding of shapes

Materials and Resources with References/Sources:	
For Teacher	For Students
Computer Projector Blender (Free Software)	Computer Blender (Free Software)

Differentiated Instruction (DI):
Accommodations
Students may be able to create shapes or play with the program at their own pace. As this is introductory, much of the Blender program at this stage is exploratory

Organizational/Management Strategies:
Anything special to consider?
<p>It is highly recommended to have a projector in a spot where all students are able to view and see the content easily.</p> <p>It is strongly suggested that teachers familiarize themselves with Blender prior to teaching any lesson to reduce teacher frustration / confusion.</p> <p>Teacher should create succinct steps when discussing new programs such as Blender</p>

Concrete plans or instructions should be considered beforehand.

Possible Aboriginal Connections / First Peoples Principles of Learning

http://www.bced.gov.bc.ca/abed/principles_of_learning.pdf

https://curriculum.gov.bc.ca/sites/curriculum.gov.bc.ca/files/pdf/aboriginal_education_bc.pdf

Learning takes patience and time.

Lesson Activities

Teacher Activities	Student Activities	Pacing
Introduction		
Teacher prepares Blender Software and projector to begin class. Once students are settled, take attendance making note of who is not available for this introductory lesson.	Students take their seat and log into their computers. Students will raise hand / provide attendance. <i>Teachers may have students complete daily task/activity to settle the class prior to or during attendance.</i>	5-10 mins
Body		
Teacher will grab students attention and inform them of what the focus of the day is: <ul style="list-style-type: none">- Introduction to Blender- How to add shapes into program- Basic navigation and understanding of Blender Teacher will ask students to open Blender. Teacher will discuss and demonstrate the following within Blender: <ul style="list-style-type: none">- How to create a new project and what to expect when you do- Discuss each of the "viewpoints"- Discuss	Students will listen and understand what they're expected to learn for today's lesson.	<5 mins

<ul style="list-style-type: none"> - Zooming <ul style="list-style-type: none"> - Scroll Wheel on Mouse - Magnifier in Corner (Click and Hold) - Orbiting <ul style="list-style-type: none"> - Hold scroll button down and move mouse - Click and hold left button down in X/Y/Z Map top right hand corner - Panning <ul style="list-style-type: none"> - Shift + Mouse Wheel + Move Mouse - Hand Gizmo top right hand corner - Views <ul style="list-style-type: none"> - Use Top Right Hand X/Y/Z Map 	<p>As the teacher demonstrates, students are expected to follow along, raising their hands and stopping the teacher when necessary.</p>	<p>5-10 mins</p>
<p>Tool Bar</p> <ul style="list-style-type: none"> - Select Tool - Move Tool - Rotate Tool <ul style="list-style-type: none"> - Hula Hoops - Scale Tool <ul style="list-style-type: none"> - Do not Scale through middle inside hoop! A bit too advanced for beginners. - Cursor <ul style="list-style-type: none"> - Used when adding objects into Blender (Origin point) - If one wishes to reset, hold shift+s and click on 'Snap to World Origin' 		<p>5-10 mins</p>

<p>Before the end of the class, teacher will demonstrate how to save their file to provide any additional time necessary in the following class. Teacher will also state that they're going to want to complete and finish their Snowman, as we will come back to it at another time.</p> <ul style="list-style-type: none"> - File → Save As 	<p>snowman, however at this time, such additions are not necessary</p> <p>Students will be sure to save the file to their personal profiles or computers as instructed by the teacher.</p>	<p>5-10 mins</p>
Closure		
<p>Teacher will ask students to log off their computers, push in their chairs and prepare for the next lesson.</p>	<p>Students will log off their computers, and prepare for their next class.</p>	<p><5 mins</p>

Post Lesson Reflections: