A Day of STEAM – Session Descriptions





August 8, 2019 | Puget Sound Educational Service District & Arts Impact

1A	Protecting Our	Respect and responsibility for our environment is explored through analyzing the interaction of human
TH	Salmon: Superstars of	and natural systems and subsystems. Salmon and their local ecosystems are a focus with students
3/5	the Northwest	observing, drawing, and cutting out a template for a salmon. Paper and other trash materials are then
Arts Infused		reused for collage salmon shapes, details, habitat, and symbols showing positive or negative human
Science	Meredith Essex	impact in ecosystem. Last, participants title their art and write an artist statement.
1B	Bee Friendly: The Math, Art and Science	Why are bees so important to humans? What can we do to help them survive as our climate changes? Do you know why bees build their hives with tessellated hexagons instead of any other kind of shape? Come
PreK-2	of Bees	explore the math and science and art of shapes that fit together in this STEAM lesson for PreK – 1st
Arts/Math		grade. We will buzz through the attributes of polygons, play with the many patterns we can make with
	Remy Poon, Beverly	tessellated shapes, and create our own 3D models of ideal bee habitats.
	Harding Buehler	
1C	Ramps and Pathways:	Tap into children's inner scientist by exploring physics and engineering in the PreK- 2nd grade space. In
10	Bringing Physics,	this hands-on session, you will design, build, and experiment with ramps and pathways to move an object
PreK-3	Engineering, and	from one end to the other. Leave with activities, questions, and teaching principles to bring this
Early	Inquiry into the	experience into your classroom.
Learning	Classroom	
	Whitney White	
4 -	How can math and	Participants will use modeling to explore the problem of plastic disposal and how recycling and changing
1D	science modeling help	consumer use of plastic can lead to solutions. As we use modeling, we will learn about the modeling
	us understand and	progression in mathematics and how it relates to and overlaps with modeling in the NGSS.
Math/	solve the problem of	progression in mathematics and now it relates to and overlaps with modeling in the wess.
Science	plastic?	
Science	piastic.	
	Leslie Nielsen	
4 🗆	Do we really have to	The NGSS encourages us to anchor student learning in local and relevant phenomena when possible. In
1E	stop eating Salmon to	this session you will have an adult-learning experience of anchoring the science learning in a current and
K-5	save the Southern	important issue in Washington state: The plight of the Southern Resident Orca Whales.
Climate	Resident Orca	
Science	Whales?	
	Cheryl Lydon	
	Cheryi Lyuuni	

K-2 Visual Arts Math	Geometric Shapes in Action Meredith Essex	Teachers/Participants identify attributes of shapes and parts of shapes in pattern blocks and in art. Students then draw and cut out circles, triangles, quadrilaterals, and irregular pentagons and hexagons to use as drawing templates. Templates are then traced in pen for a final composition. Direction of line and shape are arranged to create movement in composition. Teachers/Participants also partition shapes into halves, quarters, and thirds. Compositions are refined by adding linear details in pen and areas of color within shapes using watercolor pencil.
2B K-5 Arts Infused STEAM	Save the Salmon! Debbie Gilbert	Participants engaged in a project-based learning lesson where we try to solve the challenge of helping salmon survive. We discover many challenges salmon face at every life stage and habitat. We create a dance to communicate how we can help overcome these challenges.
P-K Arts Infused Science	Erosion at DIY Sand and Water Tables Beverly Harding Buehler, Whitney White	What happens to land when water runs downhill? How do the shapes of the land change? Why do they? What can trees and plants do to change that? Young creative scientists and engineers learn the science of erosion at sand and water tables. In this hands-on arts infused science workshop we will design and build our own DIY water and sand tables that children can make, and predict and test our theories of erosion through sand, water and play. (Each teacher will take home the sand/water table that they create).
2D 3-5 Arts & Math	Exploring Biodiversity through Art and Mathematics Leslie Nielsen	In this session, participants will use mathematics and art to understand and make sense of the biodiversity in the habitat surrounding PSESD and the Black River Complex. We will engage in the scientific and artistic practice of deep observation. From our observations we will explore and use mathematics to analyze and understand what we have observed.
2E K-5 Climate Science	Is Climate Change Too Scary to Talk About with Kids? Cheryl Lydon	Children can be overwhelmed by the troubles climate change can bring. In this session we will learn how learning about science by teaching Next Generation Science Standards can help students (and us) feel empowered and hopeful about our ability to meet this challenge.