

SD 38 K-12 Mathematics & Numeracy

Kindergarten – Grade Two: Week Four

Big Idea: We use patterns to represent identified regularities and to make generalizations.

Curricular Content: repeating patterns – repeating patterns with two or three elements, repeating patterns with multiple elements and attributes, repeating and increasing patterns

Curricular Competencies: develop, demonstrate and apply mathematical understanding through play, inquiry and problem solving, represent mathematical ideas in concrete, pictorial, and symbolic forms, engage in problem-solving experiences that are connected to place

Core Competencies focus: Communication, Creative Thinking

Teachers and Families: The following are five problems/tasks to choose from for this week, based on the above curricular areas of focus.

Find some materials in your home or outdoors. Create a repeating pattern with them. Can you create a different pattern using the same materials?
Draw and label your patterns.

Find 5 items that have repeating patterns - dishes, shoes, fabrics, clothing, socks, etc. Take a photo or draw a picture of what patterns you found.

Find some small materials like cubes or rocks or coins at home. Create an increasing (growing) pattern with them. For example, your first step could have two blocks, the next step - four blocks, the next step - six blocks.
What comes next? How is your pattern increasing?
Draw and label your pattern with numbers.

Attached are some photographs of land art. What different kinds of patterns can you see? Using found materials outdoors or in your home, create a pattern in a circular or spiral form.
Take a photograph or draw your pattern, and then label and describe it.

Numeracy Task:

Look around your home, out your window or in your neighbourhood. How are patterns used in design? How are they used in structures or how buildings and homes are numbered or organized?

Record your findings with pictures, numbers and words.

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SD38:K-2MATH-4

RICHMOND
SCHOOL DISTRICT NO. 38

Outdoor Math Art – What patterns do you see?

created by artist James Brunt



created by students in Oliver, BC



created by students at Grauer Elementary in Richmond, BC

