# Lesson 9: Generemos patrones

### Standards Alignments

|  |  |
| --- | --- |
| Addressing | 5.OA.B.3 |
| Building Towards | 5.OA.B.3 |

### Teacher-facing Learning Goals

* Given two rules, generate two numerical patterns. Identify apparent relationships between corresponding terms in the two patterns.

### Student-facing Learning Goals

* Exploremos algunas reglas y patrones.

### Lesson Purpose

The purpose of this lesson is for students to generate patterns, given two rules, and identify relationships between corresponding terms in the different patterns.

The purpose of this lesson is for students to generate two different numerical patterns and then compare the terms in the two patterns. In this lesson, the patterns are the multiples of given whole numbers, starting with 0, and one of the numbers is a multiple of the other. This means that one of the patterns is contained inside the other. For example, the list of multiples of 9 is contained inside the list of multiples of 3 since every third multiple of 3 is a multiple of 9. Students express relationships within a pattern and between 2 patterns using multiplication and division.

### Access for:

### Students with Disabilities

* Action and Expression (Activity 1)

### Instructional Routines

Choral Count (Warm-up), MLR2 Collect and Display (Activity 1)

### Lesson Timeline

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| --- | --- |
| Warm-up | 10 min |
| Activity 1 | 20 min |
| Activity 2 | 15 min |
| Lesson Synthesis | 10 min |
| Cool-down | 5 min |

### Teacher Reflection Question

In what ways did you accept students' everyday way of talking as a starting point for joining the math conversation today?

## Cool-down

(to be completed at the end of the lesson) 5min

Patrones y relaciones

### Standards Alignments

|  |  |
| --- | --- |
| Addressing | 5.OA.B.3 |

### Student-facing Task Statement

1. Escribe los 10 primeros números de estos 2 patrones.

* La regla de Jada: empezar en 0 y siempre sumar 5.
* 
* La regla de Priya: empezar en 0 y siempre sumar 10.
* 

1. ¿Qué número saldrá en el patrón de Priya cuando el patrón de Jada tenga 100?
2. ¿Qué relación observas entre los números correspondientes de los dos patrones?

### Student Responses

1. 0, 5, 10, 15, 20, 25, 30, 35, 40, 45

* 0, 10, 20, 30, 40, 50, 60, 70, 80, 90

1. 200
2. Sample response: Priya’s numbers are double Jada’s numbers or Jada's numbers are half Priya's numbers.