



Ecosystems and Food Webs

Fourth Grade Pacing Guide for POW

- All lesson materials will be linked and digital when possible. Materials for students to do investigations/activities in class are housed in a POW bin in the iInnovate lab.
- If you would like to edit the slide decks to meet your classroom needs, please make a copy first so the original copy remains intact.
- Lesson review worksheets / google forms can be sent home as homework (they are not included in lesson time estimates).

POW Suggested Pacing Guide

Schedule		
Week One	→ Pre-lesson slide deck (Spanish) - Exploring and Growing in our Comfort Zones (SEL) ◆ 15 minutes ◆ Materials: • Notebook/piece of paper • Writing tool	→ Lesson 1a: Soil ◆ 20 minutes ◆ Materials: • Teacher Lesson Plan • Slide deck (Spanish) • Video with Soil Scientist • Paper plate/paper towel- in FOSS kit • Notebook/piece of paper • Writing tool
Week Two	→ Lesson 1b: Soil ◆ 30 minutes	→ Lesson 1c: Soil (optional) ◆ 30 minutes

	◆ Materials: • Teacher Lesson Plan • Slide Deck (Spanish) • Soil Art Painting Video • Soil paint palettes* • Paint brushes* • Water color paper strips* • Paper towels • Cups with water * *found in the innovation lab	◆ Materials: • Teacher Lesson Plan • Slide Deck (Spanish) • Previous artwork • Notebook/piece of paper • Writing tool • iInnovate lab green screen* • iInnovate iPads* *found in the innovation lab How to use Do Ink Green Screen video
Week Three	→ Lesson 2a: Weathering ◆ 25 minutes ◆ Materials: • Teacher Lesson Plan • Slide deck (Spanish) • Plastic cup (either 1 as class, or each student to do activity at home) in FOSS kit • Water • Something to mark the cup with (marker, piece of tape, or rubber band) • Video of investigation setup	→ Lesson 2b: Weathering ◆ 20 min plus 10 min activity ◆ Materials: • Teacher Lesson Plan • Slide deck (Spanish) • Investigation Review worksheet / google form • Video reviewing Part A investigation • Sorting Activity worksheet (don't need if doing activity in slide deck) • Sorting Activity Answer Key
Week Four	→ Lesson 3a: Erosion and Deposition ◆ 25 Minutes ◆ Materials: • Teacher Lesson Plan • Slide deck (Spanish) • Review worksheet / google form • Glacier erosion video clip	→ Lesson 3b: Erosion and Deposition ◆ 25 minutes plus 10 minutes for activity ◆ Materials: • Teacher lesson plan • Slide deck (Spanish) • Video clip of deposition • Video of investigation • Either 1 for class or each student: ○ Clear container with lid (could ask students to find at home)- in FOSS kit ○ Soil from school or backyard ○ Water ○ Activity worksheet / google form

Week Five	→ Lesson 4a: The Gold Rush and Our Watersheds ◆ 25 minutes ◆ Materials • Teacher Lesson Plan • Slide deck (Spanish)	→ Lesson 4b: The Gold Rush and Our Watersheds ◆ 25 minutes ◆ Materials • Teacher Lesson Plan • Slide deck (Spanish)
Week Six	→ Lesson 5a: Local Ecosystems ◆ 25 minutes ◆ Materials: • Teacher Lesson Plan • Slide Deck (Spanish) • Activity answer key (activity is in slide deck) • 5a Review worksheet / google form	→ Lesson 5b: Local Ecosystems ◆ 20 minutes ◆ Materials: • Teacher Lesson Plan • Slide Deck (Spanish) • 5b Review worksheet / google form
Week Seven	→ Lesson 6a: Local Food Webs ◆ 20 minutes ◆ Materials: • Teacher Lesson Plan • Slide deck (Spanish) • 6a Review worksheet / google form	→ Lesson 6b: Local Food Webs ◆ 20 minutes for slide deck only - NOT activity - either do food web activity next time in class, or assign as homework. ◆ Materials: • Teacher Lesson Plan • Slide deck (Spanish) • Organism worksheet to cut out to make food web • Food Web Answer Key • Food Web Answer Example - kids answers may look different • Extra piece of paper/cardstock • Scissors • Glue • Writing tool/marker
Week Eight	→ Lesson 6b: Local Food Webs Activity ◆ 25 minutes for food web activity ◆ Materials: • Teacher Lesson Plan • Slide deck (Spanish) • Organism worksheet to cut out to make food web • Food Web Answer Key • Food Web Answer Example - kids answers may look different • Extra piece of paper/cardstock	

	• Scissors • Glue • Writing tool/marker	
Week Nine	→ Lesson 7a: Plant Adaptations → 20 minutes Materials: • Teacher Lesson Plan • Slide deck (Spanish) • 7a Review worksheet	→ Lesson 7b: Algae Adaptations ◆ 20 minutes for slide deck ◆ 20 minutes for activiy ◆ Materials: • Teacher Lesson Plan • Slide deck (Spanish) • 7b Review worksheet • Bowl for water • Types of algae- provided from Kelpful
Week Ten	→ Lesson 8: Animal Adaptations • Teacher Lesson Plan • Slide deck (Spanish) • Bird Beak Matching • 8 Review worksheet	
Week Eleven	→ Lesson 9: Coastal Marine Ecosystems Materials: • Teacher Lesson Plan • Slide deck (Spanish) • 9 Review worksheet • Food Web activity worksheet (Spanish) • Flashcards	
Week Twelve	Field Trips- Avila Estuary May 2024	