**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 or at home may need to be provided.
* 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 |  | |
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| Week One | * Pre-lesson slide deck - 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     - [Video with Soil Scientist](https://youtu.be/plz6dC05SXo)     - Paper plate/paper towel     - Notebook/piece of paper     - Writing tool |
| Week Two | * Lesson 1b: Soil   + 30 minutes   + Materials:     - Teacher Lesson Plan     - Slide Deck     - [Soil Art Painting Video](https://youtu.be/URLyp-CEgfw)     - Soil paint palettes     - Paint brushes     - Water color paper strips     - Paper towels     - Cups with water | * Lesson 1c: Soil (optional)   + 30 minutes   + Materials:     - Teacher Lesson Plan     - Slide Deck     - Previous artwork     - Notebook/piece of paper     - Writing tool     - Green screen     - iPads |
| Week Three | * Lesson 1c: Soil (optional)   + 30 minutes   + Finalize and record/present   + Materials:     - Teacher Lesson Plan     - Slide Deck     - Previous artwork     - Notebook/piece of paper     - Writing tool     - Green screen     - iPads | Lesson catch-up/review time |
| Week Four | * Lesson 2a: Weathering   + 25 minutes   + Materials:     - Teacher Lesson Plan     - Slide deck     - Plastic cup (either 1 as class, or each student to do activity at home)     - Water     - Something to mark the cup with (marker, piece of tape, or rubber band)     - [Video of investigation setup](https://youtu.be/OQAzPnNTmCA) | * Lesson 2b: Weathering   + 20 min plus 10 min activity   + Materials:     - Teacher Lesson Plan     - Slide deck     - Investigation Review worksheet / google form     - [Video reviewing Part A investigation](https://youtu.be/7bRd5uF2xO0)     - Sorting Activity worksheet (don’t need if doing activity in slide deck)     - Sorting Activity Answer Key |
| Week Five | * Lesson 3a: Erosion and Deposition   + 25 Minutes   + Materials:     - Teacher Lesson Plan     - Slide deck     - Review worksheet / google form     - [Glacier erosion video clip](https://youtu.be/BT430Knf-G4) | * Lesson 3b: Erosion and Deposition   + 25 minutes plus 10 minutes for activity   + Materials:     - Teacher lesson plan     - Slide deck     - [Video clip of deposition](https://youtu.be/7da1eMuBSJ4)     - [Video of investigation](https://youtu.be/QsiuY0BOFaM)     - Either 1 for class or each student:       * Clear container with lid (could ask students to find at home)       * Soil from school or backyard       * Water       * Activity worksheet / google form |
| Week Six | * Lesson 4a: The Gold Rush and Our Watersheds   + 25 minutes | * Lesson 4b: The Gold Rush and Our Watersheds   + 25 minutes |
| Week Seven | * Lesson 4b: Gold Rush Activity   + 40 minutes | Lesson catch-up/review time |
| Week Eight | * Lesson 5a: Local Ecosystems   + 25 minutes   + Materials:     - Teacher Lesson Plan     - Slide Deck     - 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     - 5b Review worksheet / google form |
| Week Nine | * Lesson 6a: Local Food Webs   + 20 minutes   + Materials:     - Teacher Lesson Plan     - Slide deck     - 6a Review worksheet / google form | * Lesson 6b: Local Food Webs   + 25 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     - Organism worksheet to cut out to make food web     - Food Web Answer Key     - Food Web Answer Example - kids answers may look different |
| Week Ten | * Lesson 6b: Local Food Webs ACTIVITY   + 20 minutes for food web activity   + Materials:     - Teacher Lesson Plan     - Slide deck     - Organism worksheet to cut out to make food web     - Food Web Answer Key     - Food Web Answer Example - kids answers may look different | Lesson 7a: Plant Adaptations   * + 30 minutes   + Materials:     - Teacher Lesson Plan     - Slide deck     - Review worksheet 7A |
| Week Eleven | Lesson 7b: Plant Adaptations   * + 30 minutes   + Materials:     - Teacher Lesson Plan     - Slide deck * Seaweed packets for each group * Paper plate/bag * Popcorn * Review worksheet 7B | Lesson 8: Animal Communication & Senses   * + 30 minutes   + 15 minute activity   + Materials:     - Teacher Lesson Plan     - Slide deck * Review worksheet 8 * [Bird beak matching activity handout](https://creeklands-my.sharepoint.com/personal/christiana_creeklands_org/_layouts/15/doc.aspx?sourcedoc={9f4c51be-26eb-4e51-bfbb-d49a0bef12cd}&action=edit) |
| Weeks Twelve-Fourteen | Field Trips- Avila Beach Estuary  (Lesson catch-up time/adjustments) | Field Trips- Avila Beach Estuary  (Lesson catch-up time/adjustments) |
| Week Fifteen | Lesson 9: Coastal Marine Ecosystems   * + 25 minute presentation   + Materials:     - Teacher Lesson Plan     - Slide deck     - Review worksheet 9 | Lesson 9: Coastal Marine Ecosystems   * + 20 minute activity   + Materials:     - Materials for hands-on activity including chalk & group flashcards. |