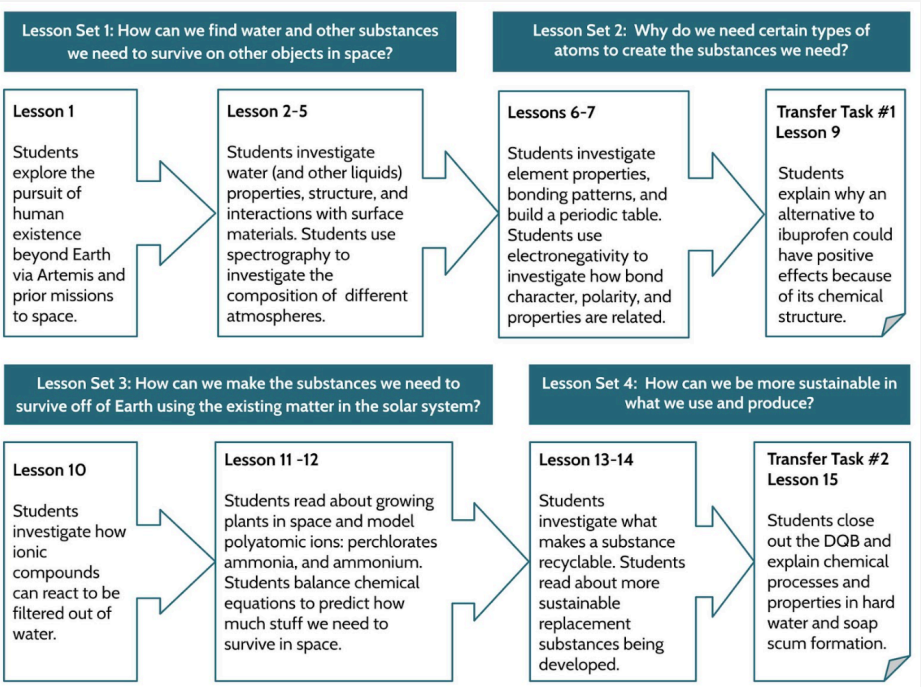
# C.3 Molecular Process in Earth Systems



## Unit Structure




## Before Teaching the Unit

Watch the unit webinar.

Read the unit storyline.

Join the Facebook Group for the course.

Review the Assessment System Overview in the Unit Overview to complete the Grading Planning Tool for the unit.

Review the Unit Overview, Material List and Lesson Teacher Edition to check for the required materials and supplies necessary for the unit. Take note of these unit-specific items related to materials:

- If this unit was not preceded by others that support students in strong models of electrostatic forces and basic atomic structure, such as C.2 Structure & Properties of Matter, you will need to provide supplementary instruction.
- In the first lesson, be prepared to model the relationship between Earth, the Moon, and the International Space Station in your classroom. See the preparation section of the lesson's teacher guide for more information.
- Many lessons in this unit utilize color images or cards. Consult individual lessons to determine which you wish to print and which you might have students access digitally instead.

- The stations in Lesson 2 and the investigation in Lesson 4 require extra setup, as do the demonstrations in Lesson 5. See the teacher references and videos in these lessons for specific guidance.
- The Element Card Sets introduced in Lesson 6, the models used in Lessons 8 and 9, and the cards in Lessons 10 and 11 require advance preparation the first time you use the unit.
- Although students begin balancing equations and working with different types of reactions in this unit, remember that they will continue this work in subsequent units.

## While Teaching the Unit

- Watch teacher set-up videos for investigations.
- Keeping a running record of class discoveries and investigations throughout the unit to help absent students catch up and as a reference for future years. Approaches could include a teacher version of a student notebook, or a running shared Google document.
- Organize handouts and digital materials as you go for future use.

## After Teaching the Unit

- Use envelopes to organize cards from this unit for future use.
- Make notes of future revisions, modifications.
- Take pictures of posters, consensus models and exemplary student work.
- Survey students at end of unit for feedback and self-reflection.

## Unit Fast Facts for Planning

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| **Unit Length** | 15 Lessons, 31 Days |
| **Lessons with Hands-On Investigations** | 2, 4, 5 |
| **Lessons Requiring Student Devices** | 7, 8, 14 |
| **Lessons that Require In-Advance Material Preparation** | 1, 2, 4, 5, 8, 9, 10, 11<br>Color copies: 1, 5, 6, 9, 11, 12 |
| **Lessons with Mid-Point or Summative Assessment Moments** | 4, 5, 9, 12, 15 |