

# Clarinda Community School District Science Learning Day

With Kim Wise

# Our Purpose

- Opportunity for collaboration in common learning as a 6-12 science team
- Support the collective implementation of NGSS-designed curriculum
- Improve outcomes for all learners

# Innovations of the Next Generation Science Standards (NGSS)

- Making sense of **phenomena** and **designing solutions** to problems
- Three-dimensional **learning** and **assessment**
- **K-12 Progressions**
  - All three dimensions
  - Engineering Design
- **Explicit connections** to ELA and Math
- **All Standards, All Students**



# Analyzing Standards Bundles

## Disciplinary Core Ideas (DCI):

These ideas are the big rocks of what is taught in Science. It guides teachers as they map, differentiate and build their curriculum across all grade levels.

## Next Generation Science Standards:

Each grade level has a variety of standards and benchmarks that are taught and explored. Each standard is based off the Disciplinary Core Ideas.

### OpenSciEd-8.1 Contact Forces:

Why do some things get damaged when they hit each other?

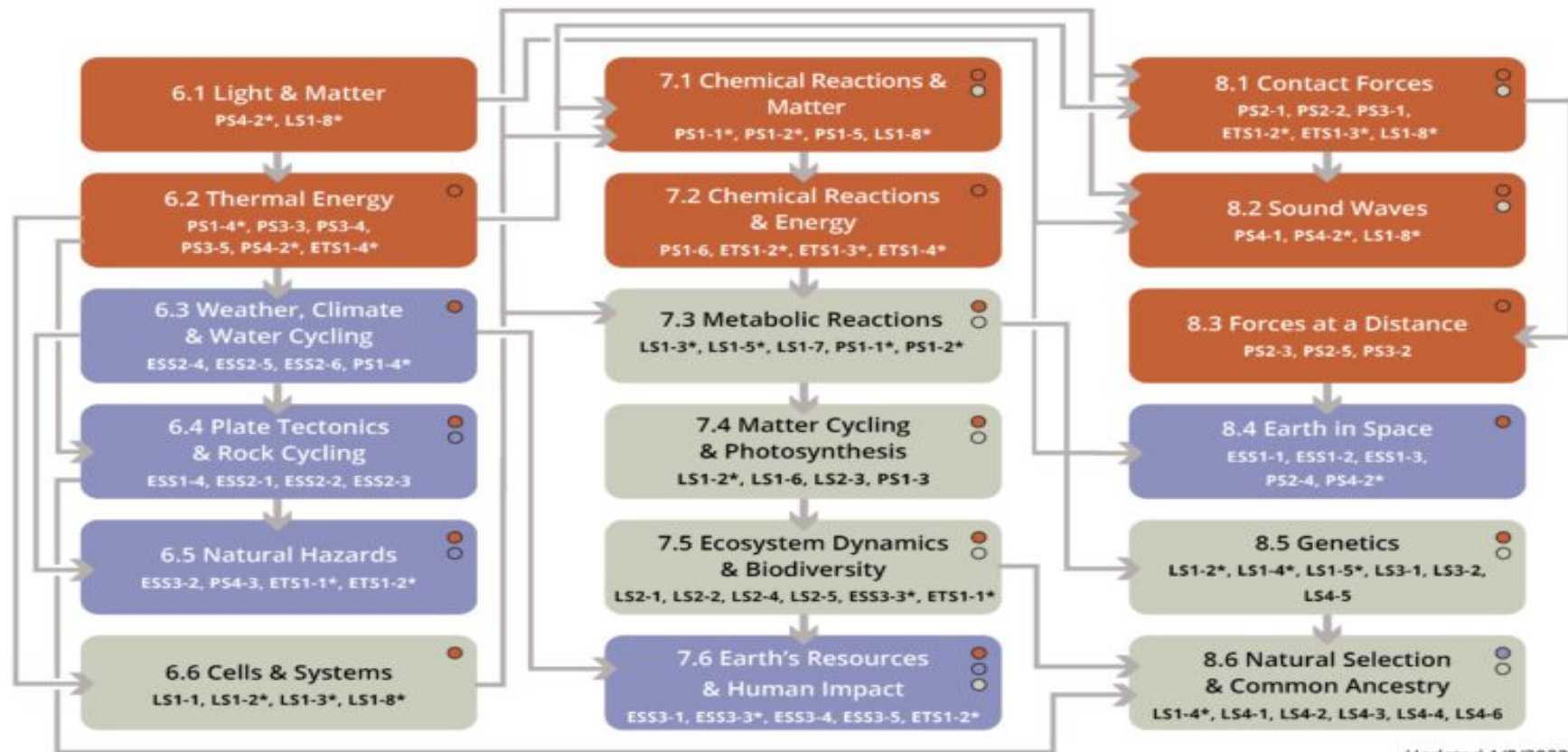
### OpenSciEd-6.3 Weather, Climate & Water Cycling-

Why does a lot of hail, rain or snow fall at some times and not others?

## GRADE 6

## GRADE 7

## GRADE 8



Updated 1/8/2022

### Unit Emphasis

- PHYSICAL SCIENCE PEs
- EARTH AND SPACE SCIENCE PEs
- LIFE SCIENCE PEs

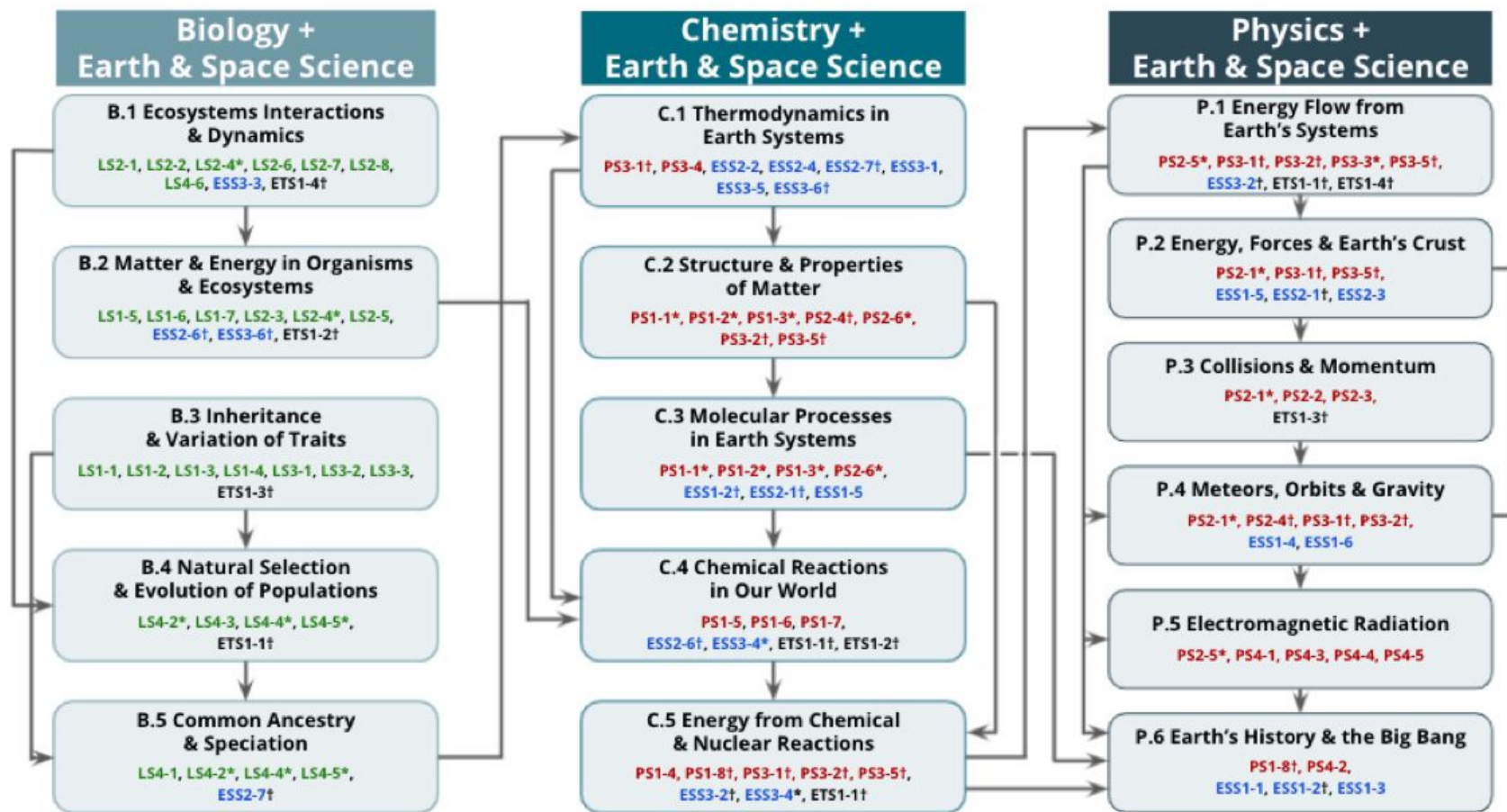
\*PE builds across multiple units

### Prior PEs the Unit Builds on

- PRIOR PHYSICAL SCIENCE PEs
- PRIOR EARTH AND SPACE SCIENCE PEs
- PRIOR LIFE SCIENCE PEs

### Unit Connections





# Our Takeaways from the day

- Quality science curriculum shifts the hard thinking and tasks from the teacher to the students.
- Embedded all curricular areas: Science, Writing, Literacy, Math, and SEL
- Students plan and do the investigations during the lessons.
- Professional Learning materials are available on the [Open Sci Ed site.](#)