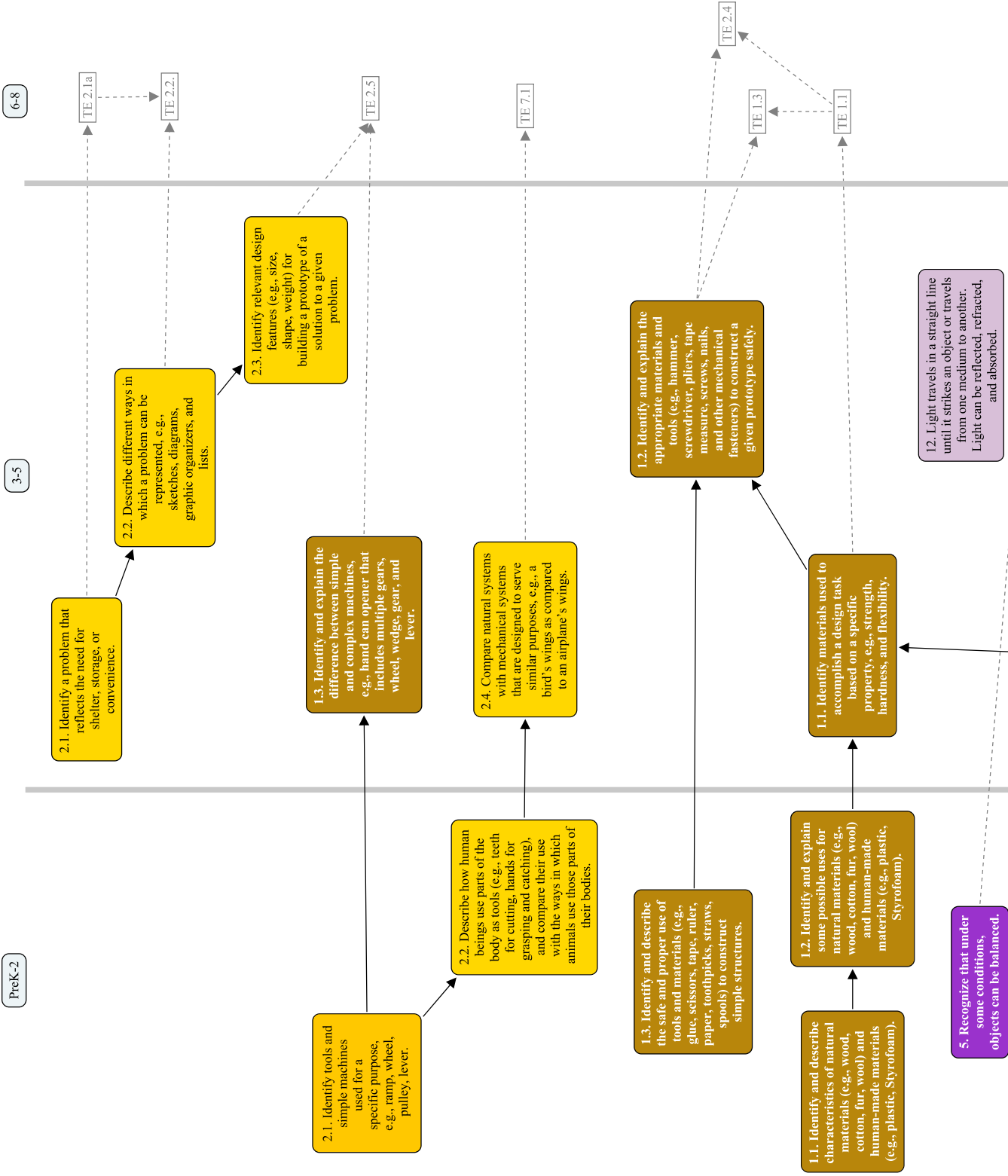
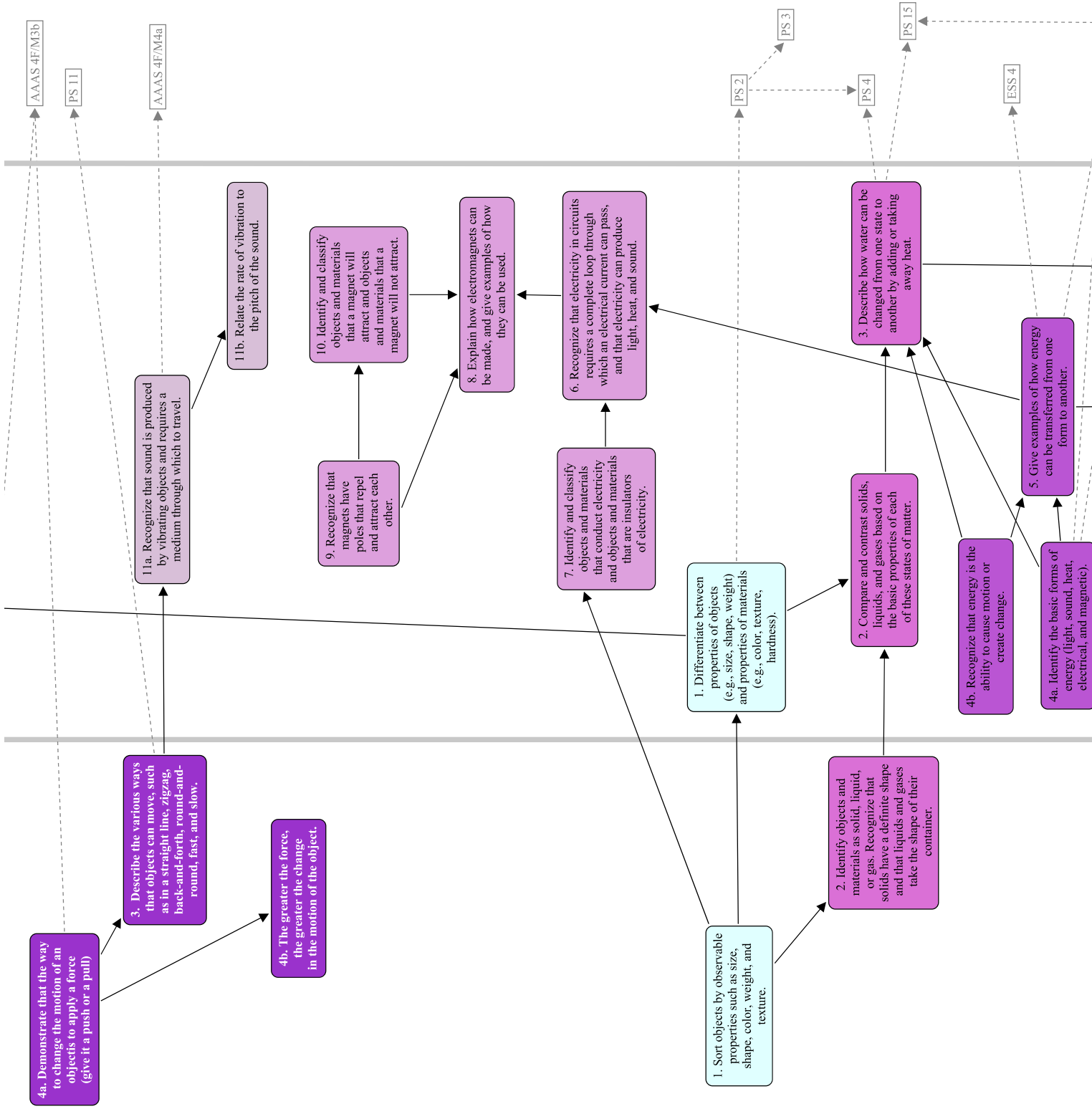
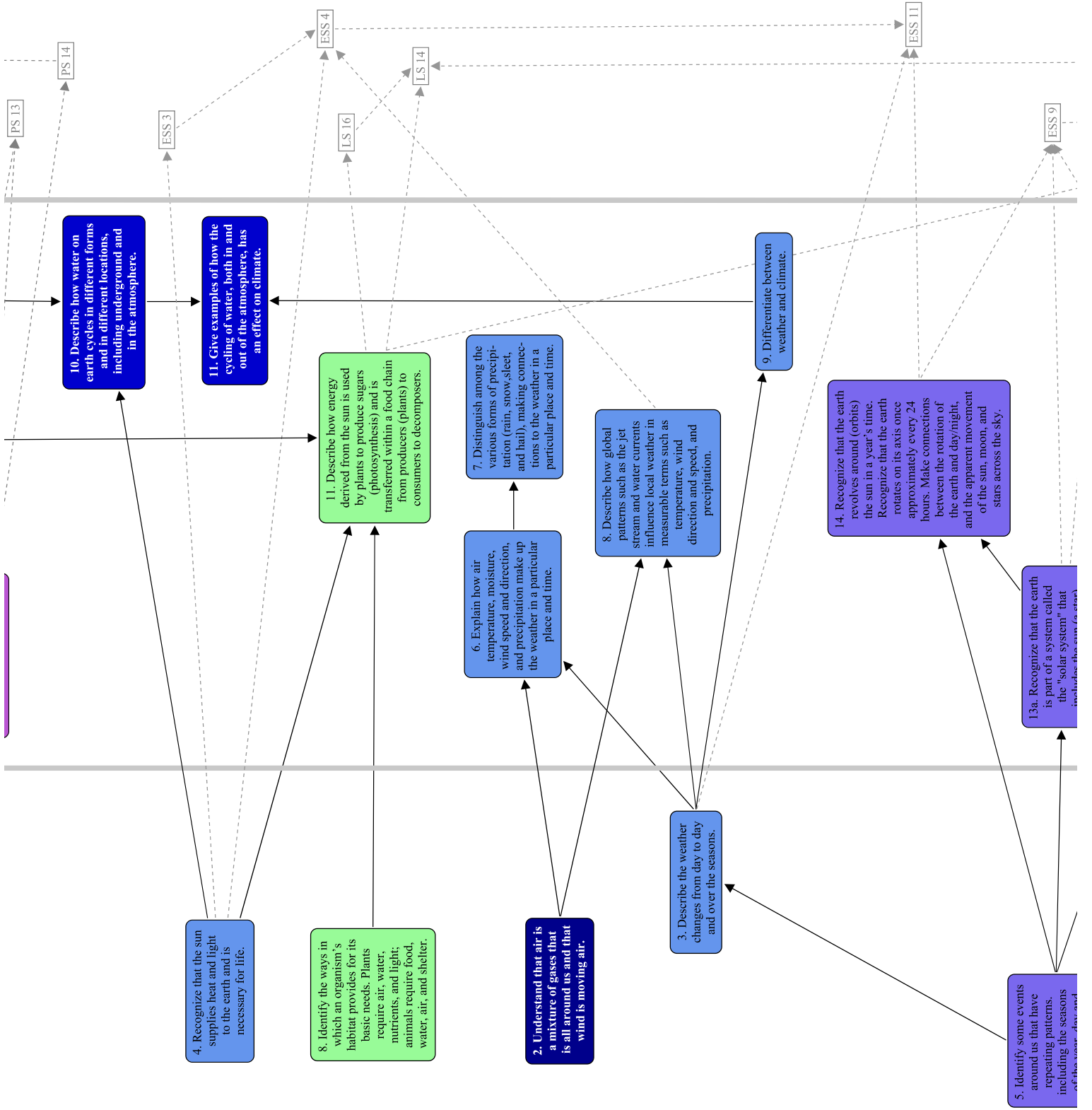


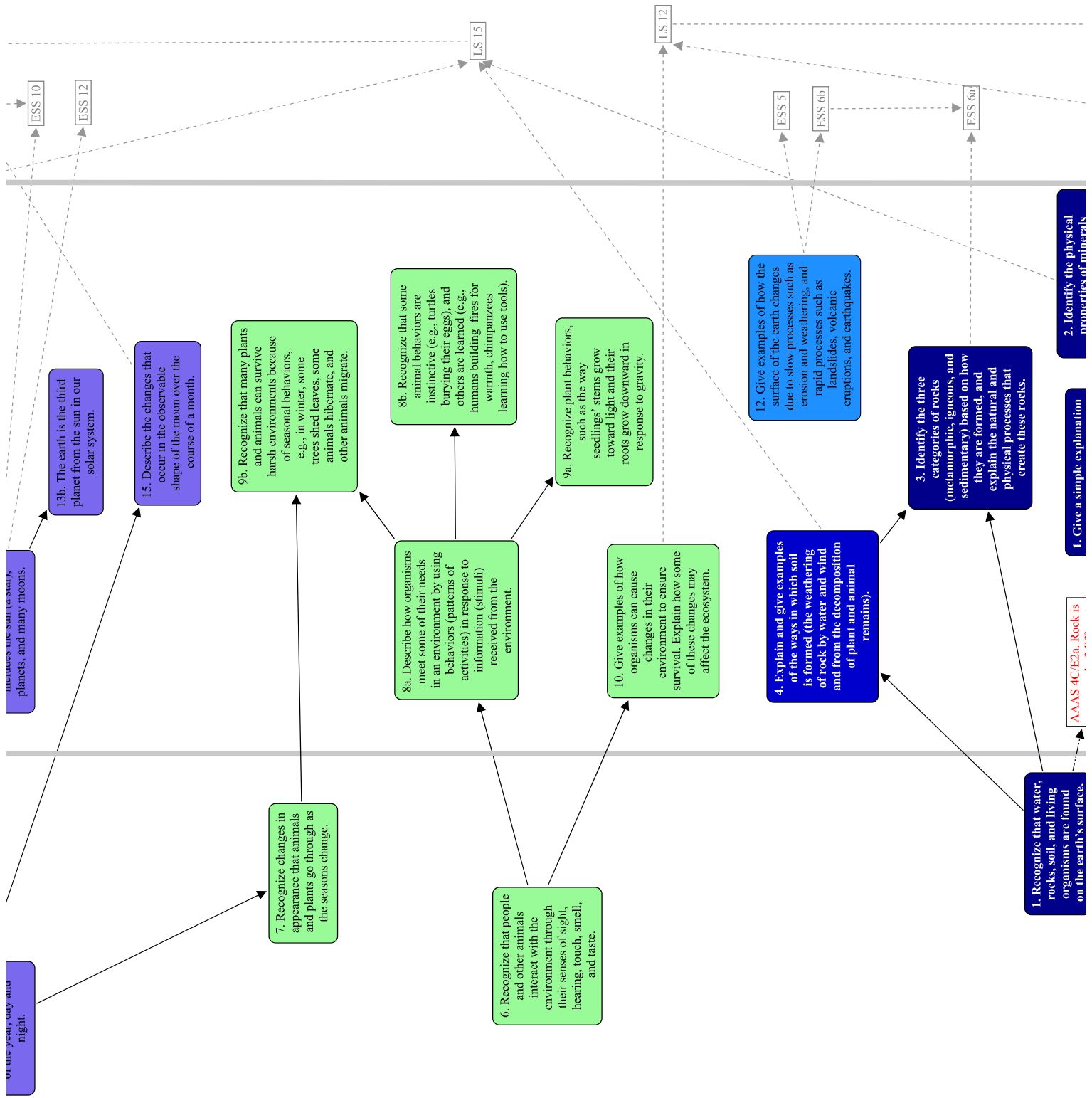
K-5 Science & Technology/Engineering Strand Map

MA Department of Elementary & Secondary Education
2009









of the year, day and night.

includes the sun, planets, and many moons.

13b. The earth is the third planet from the sun in our solar system.

15. Describe the changes that occur in the observable shape of the moon over the course of a month.

9b. Recognize that many plants and animals can survive harsh environments because of seasonal behaviors, e.g., in winter, some trees shed leaves, some animals hibernate, and other animals migrate.

8b. Recognize that some animal behaviors are instinctive (e.g., turtles burying their eggs), and others are learned (e.g., humans building fires for warmth, chimpanzees learning how to use tools).

9a. Recognize plant behaviors, such as the way seedlings' stems grow toward light and their roots grow downward in response to gravity.

12. Give examples of how the surface of the earth changes due to slow processes such as erosion and weathering, and rapid processes such as landslides, volcanic eruptions, and earthquakes.

3. Identify the three categories of rocks (metamorphic, igneous, and sedimentary) based on how they are formed, and explain the natural and physical processes that create these rocks.

4. Explain and give examples of the ways in which soil is formed (the weathering of rock by water and wind and from the decomposition of plant and animal remains).

7. Recognize changes in appearance that animals and plants go through as the seasons change.

6. Recognize that people and other animals interact with the environment through their senses of sight, hearing, touch, smell, and taste.

10. Give examples of how organisms can cause changes in their environment to ensure survival. Explain how some of these changes may affect the ecosystem.

8a. Describe how organisms meet some of their needs in an environment by using behaviors (patterns of activities) in response to information (stimuli) received from the environment.

1. Recognize that water, rocks, soil, and living organisms are found on the earth's surface.

AAAAS 4C/E2a. Rock is

1. Give a simple explanation

2. Identify the physical properties of minerals

3. Identify the physical processes that create these rocks

LS 15

LS 12

ESS 10

ESS 12

ESS 5

ESS 6b

ESS 6a

