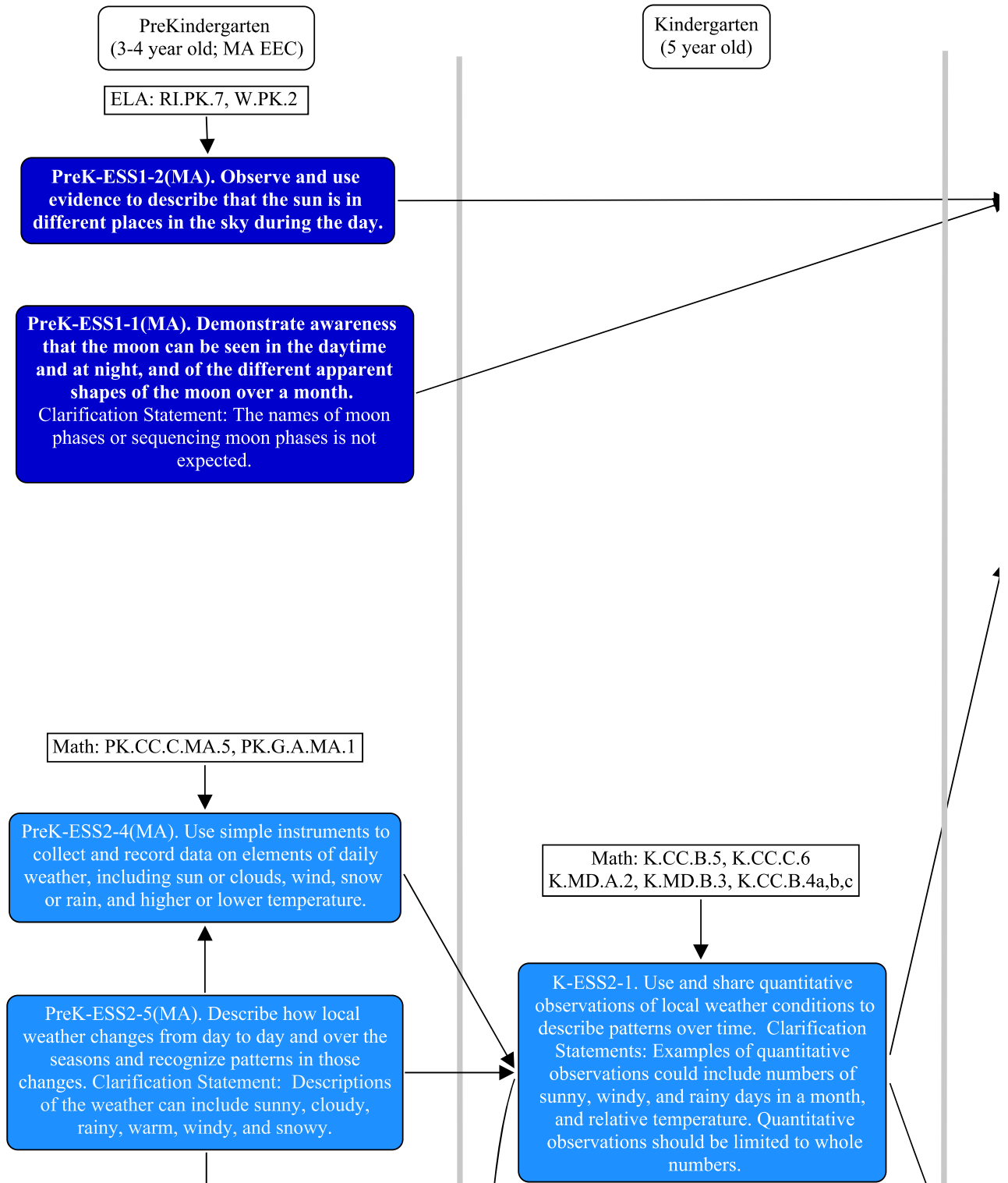


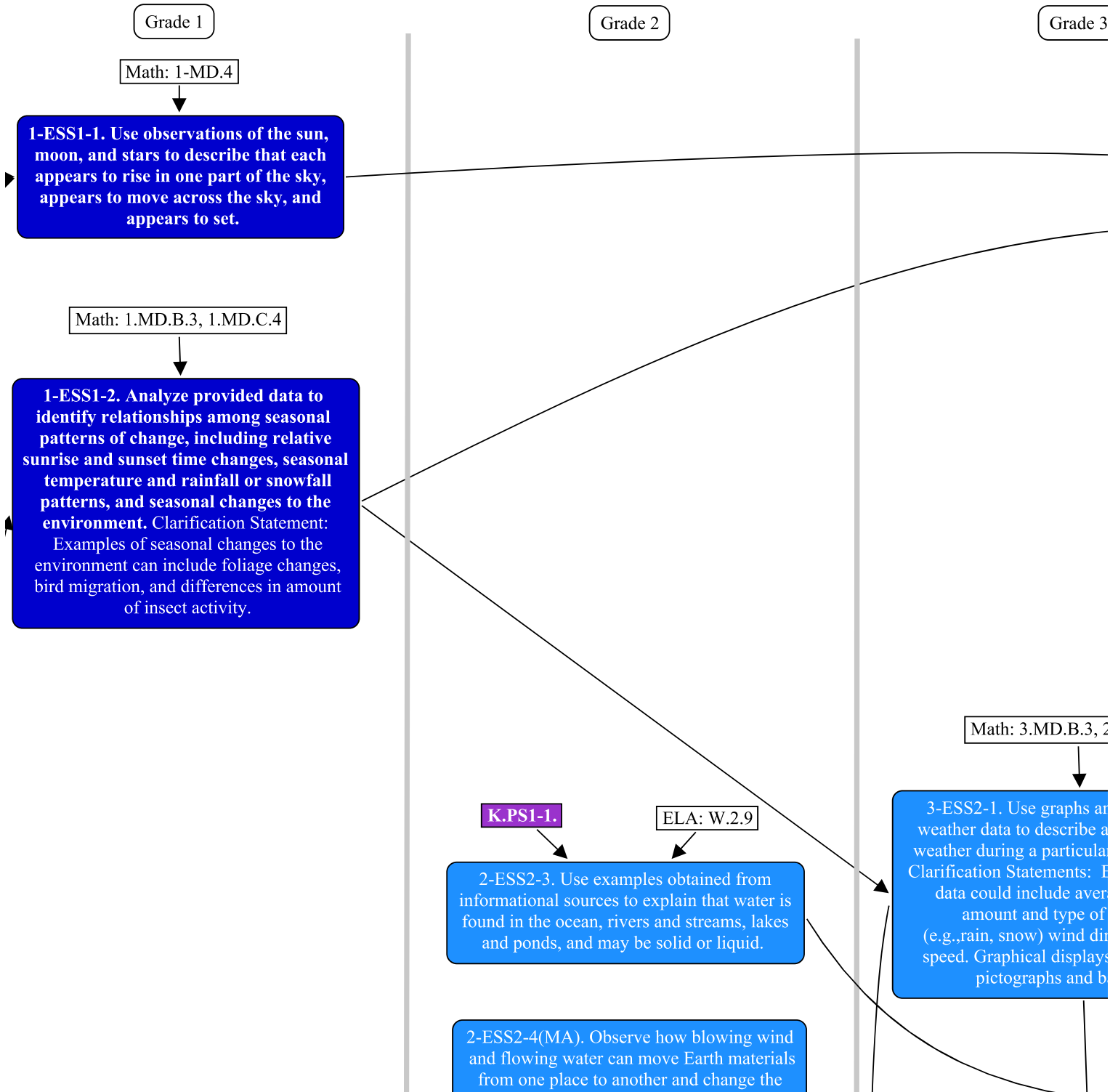
MA 2016 STE

1. Earth's Place in the Universe

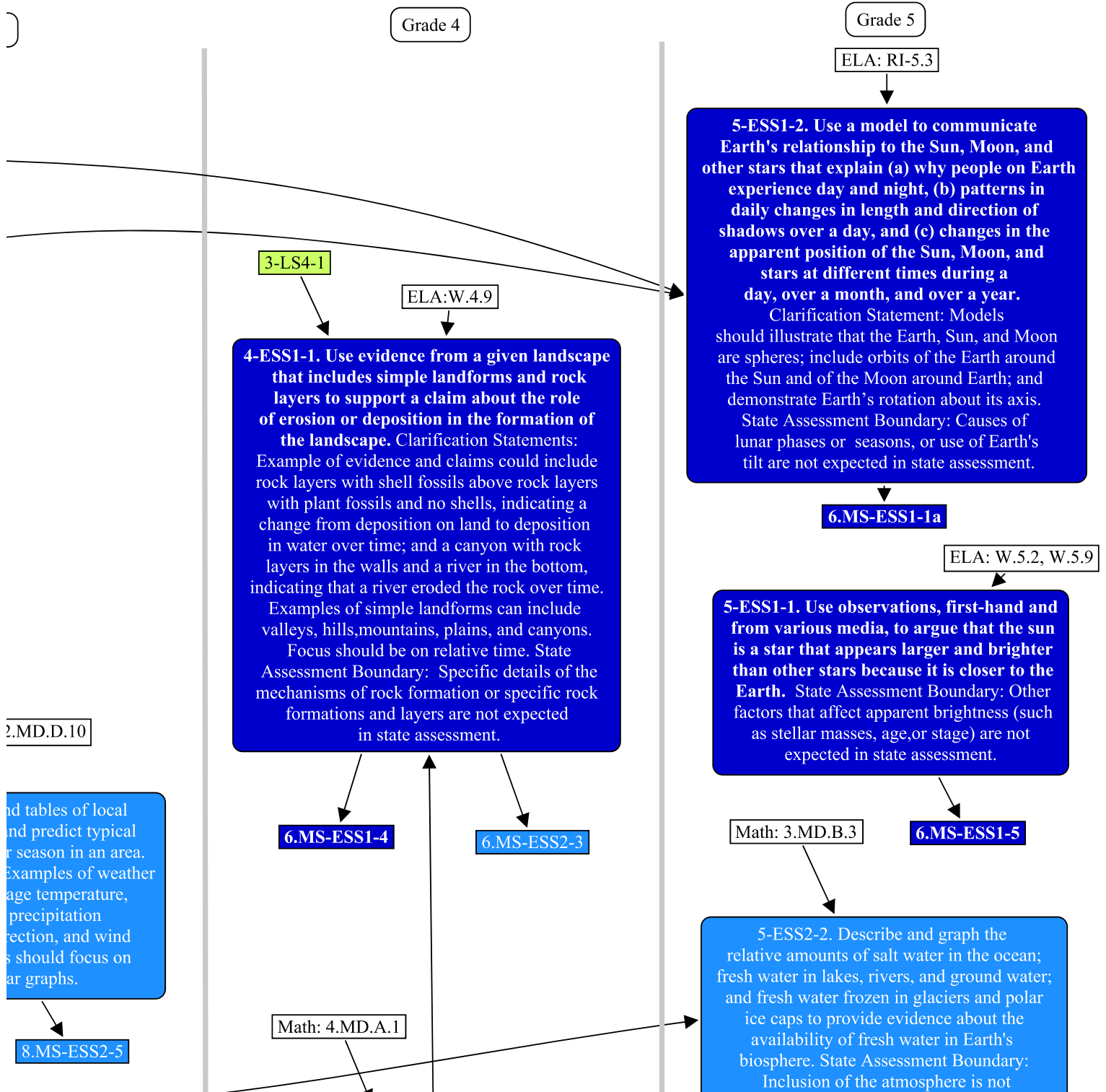


PreK-5 Earth & Space Science Strand Map

Please direct comments, suggested edits, and questions to: mathsciencetech@doe.mass.edu.
The standards and strand maps are available at: www.doe.mass.edu/stem/review.html
(*) denotes integration of technology/engineering through a practice or core idea.



ap (April 2016)



2.
Earth's
Systems

PreK-ESS2-6(MA). Provide examples of the impact of weather on living things.
Clarification Statement: Make connections between the weather and what they wear and can do and the weather and the needs of plants and animals for water and shelter.

PreK-PS1-2.

Math: PK.MD.B.MA.3

PreK-ESS2-2(MA). Observe and classify non-living materials, natural and human-made, in the local environment.

PreK-LS2-1

ELA: SL.PK.3, SL.PK.6

PreK-ESS2-1(MA). Raise questions and engage in discussions about how different types of local environments (including water) provide homes for different kinds of living things.

PreK-LS2-3

PreK-ESS2-3(MA). Explore and describe different places water is found in the local environment.

PreK-LS2-3

ELA: SL.PK.

PreK-ESS3-2(MA). Observe and discuss the impact of people's activities on the local environment.

PreK-ESS3-1(MA). Engage in discussion and raise questions using examples about local resources (including soil and water) humans use to meet their needs.

ELA: SL.PK.3, SL.PK.1

3.
Earth &
Human
Activity

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ELA: W.K.1

K-ESS2-2. Construct an argument supported by evidence for how plants and animals (including humans) can change the environment. Clarification Statement: Examples of plants and animals changing their environment could include a squirrel digging holes in the ground and tree roots that break concrete.

3-LS4-4

ELA: RI.K.3

K-ESS3-2. Obtain and use information about the purpose of weather forecasting to prepare for, and respond to, different types of local weather.

ELA: SL.K.5, W.K.2

K-ESS3-3. Communicate solutions to reduce the amount of natural resources an individual uses.* Clarification Statement: Examples of solutions could include reusing paper to reduce the number of trees cut down and recycling cans and bottles to reduce the amount of plastic or metal used.

shape of a landform. Clarification Statement:
Examples of types of landforms can include
hills, valleys, river banks, and dunes.

2.K-2-ETS1-3

3-LS4-4

2-ESS2-1. Compare the effectiveness of
multiple solutions designed to slow or
prevent wind or water from changing the
shape of the land.* Clarification Statements:
Solutions to be compared could include
different designs of dikes and windbreaks to
hold back wind and water, and different
designs for using shrubs, grass, and trees
to hold back the land. Solutions can be
generated or provided.

2-ESS2-2. Map the shapes and types of
landforms and bodies of water in an area.
Clarification Statements: Examples of types
of landforms can include hills, valleys, river
banks, and dunes. Examples of water bodies
can include streams, ponds, bays, and rivers.
Quantitative scaling in models or contour
mapping is not expected.

ELA: RI.3.1, 2, 3.9

3-ESS2-2. Obtain and sur
about the climate of dif
world to illustrate tha
conditions over a year
Clarification Statement: Ex
can include climate
temperature, average pr
wind speed) or compar
of seasonal weather for di
Assessment Boundary: A
climate change is not
assessm

3-LS4-4

3-ESS3-1. Evaluate the
solution that reduces t
weather-related hazard
Statement: Examples of c
a weather-related hazar
barrier to prevent floodin
roof, and a light

