

THE STATE EDUCATION DEPARTMENT

list of the expected materials is attached so that schools can plan for the necessary procurements. The activities were specifically designed to require relatively simple and inexpensive materials. Please note that the materials list prioritizes supplies that schools may not already have in their science classrooms and will need to order or to procure in bulk, or are consumable materials that will need to be replenished. It is likely that other, minor materials (e.g., lab safety equipment, rulers, chalk) that would be expected to already be present in science classrooms will be needed to complete the Investigations.

The three required Investigations for Earth and Space Sciences and the primary performance expectation measured by each are:

- Space Systems: Unearthing Mars – A Historical Perspective (PE: HS-ESS1-4)
- Earth's Systems: The Ripple Effect – The Work of Water Across New York State Surfaces (PE: HS-ESS2-5)
- Weather and Climate: The Sky is the Limit – Decoding Weather Conditions (PE: HS-ESS2-8)

The three required Investigations for Life Science: Biology and the primary performance expectation measured by each are:

- Structure and Function: Balancing Act – Exploring Feedback and Homeostasis (PE: HS-LS1-3)
- Inheritance and Variation of Traits: Unraveling the Mystery of Lactose Intolerance (PE: HS-LS3-3 & HS-LS1-1)
- Interdependent Relationships in Ecosystems: For the Birds – Designing Solutions (PE: HS-LS-2-7)

Additional details about the Investigations for the Regents Examinations in Earth and Space Sciences and Life Science: Biology will be forthcoming. All documentation for the Investigations, including translated editions, will be available in spring 2024 so that science educators may review it prior to the 2024-25 school year.

The purpose of this communication is to confirm the inclusion of Investigations as part of the strategy for high school science assessment and to provide schools and districts with a list of materials to aid in budgeting and planning. Details about the implementation of the Investigations will be shared as soon as possible.

Please contact the Office of State Assessment at [emscassessinfo@nysed.gov](mailto:emscassessinfo@nysed.gov) with any questions about the contents of this memorandum.

### Earth & Space Sciences Materials List

- Stream Tables (1 for every 2-4 students) (note: these can be constructed using a plastic 41 qt. container)
- Electronic balances, minimum accuracy to the nearest tenth (1 for every 2 students)
- 2 to 2.5 gallon-sized buckets (1 for every 2 students, plus several extra)
- Acetate sheets
- 2-liter soda bottles, 1-liter soda bottles, spray bottles, and 16 oz rain bottles (1 of each for every 2 students)
- Cheese cloth, washcloths, and coffee filters (1 of each for every 2 students)
- Food coloring
- Gravel (pebble-sized), fine sand, coarse sand, and potting soil