

Disciplinary Outcomes of K-5 Science: North Rockland, NY

Disciplinary Outcomes (TEACHER)	Disciplinary Outcomes (STUDENT)	Related Standards <i>Next Generation Science Standards, CCSS English Language Arts, CCSS Math Practices</i>
Ask questions to define a problem and develop ideas for an investigation	I can ask questions before and after doing a fair test or designing a model.	<ul style="list-style-type: none"> • NGSS: K-5 Practice 1, K-2-ETS1-1, 3-5-ETS1-1 • CCSS E/LA: RI.1, SL.1 • CCSS MP: 1
Observe and explore a given system or concept to deepen scientific understanding	I can make observations to help me understand <u>a given science system or concept</u> . (NOTE: <i>replace underline with particular system or concept</i>)	<ul style="list-style-type: none"> • NGSS: K-5 Practice 6, K-2-ETS1-1, 3-5-ETS1-1 • CCSS E/LA: RI.3, RI.7, W.7
Plan and conduct an investigation to test a hypothesis using precise collection, recording and safety practices	I can plan and carry out a “fair test” with my partner(s) to collect and record data.	<ul style="list-style-type: none"> • NGSS: K-5 Practice 3, K-5 Practice 5, K-2-ETS1-1, 3-5-ETS1-3 • CCSS MP: 1, 2, 4, 5, 6
Analyze data to seek out patterns, draw conclusions and/or make predictions	I can analyze data to explain what happened (a concept, a system or phenomenon).	<ul style="list-style-type: none"> • NGSS: K-5 Practice 4, K-5 Practice 5, K-5 Practice 6, K-2-ETS1-3, 3-5-ETS1-3 • CCSS E/LA: RI.3 • CCSS MP: 2, 5, 7, 8
Solve problems through the development of models (iterative cycle of design, test, evaluate)	I can design a model by creating a solution, testing it out, and evaluating how to make it better.	<ul style="list-style-type: none"> • NGSS: K-5 Practice 2, K-5 Practice 5, K-5 Practice 6, K-2-ETS1-2, 3-5-ETS1-1 • CCSS MP: 2, 4, 5
Evaluate scientific claims and analyze issues to verify the credibility of the source, data, and/or approach	I can make informed opinions whenever I see a scientific claim.	<ul style="list-style-type: none"> • NGSS: K-5 Practice 8 • CCSS E/LA: RI.1, RI.3, RI.8 W.1, W.7, SL.4 • CCSS MP: 3, 6
Communicate effectively based on purpose, task, and audience using appropriate vocabulary	<p>I can write, talk and draw science.</p> <ul style="list-style-type: none"> • I can write a detailed lab report. • I can discuss my investigations using whole sentences and appropriate vocabulary. • I can make and use graphics to help my listener/reader understand my investigation and conclusions. 	<ul style="list-style-type: none"> • K-5 Practice 6, K-5 Practice 7, K-5 Practice 8, • CCSS E/LA: W.1, W.2, SL.1, SL.2, SL.5 • CCSS MP: 3, 6, 7, 8

