



New Haven Public Schools 2021-2022 School Year SCIENCE OVERVIEW PUBLIC PACING CHART

NHPS SCIENCE Curriculum At-A-Glance <https://sites.google.com/a/nhps.net/new-haven-public-schools-curriculum/science>

(includes links to Instructional Frameworks, Science Practice Rubrics, Resources and Professional Development)

- Taught using learning cycle: Engage, Explore, Explain, Elaborate, Evaluate.
- Students figure things out, not just learn about!
- **Science and Engineering Practices** (Observing, Measuring, Questioning, Modeling, Investigating, Analyzing Data/Math, Explaining, Argumentation, Communicating/Discourse) used throughout!

(Note: Elem K-5 should be at least 100 min/week hands-on science! + literacy/math, 6-12 at least 230 min/week)

	Quarter 1		Quarter 2		Quarter 3		Quarter 4	
K	Plants and Animals Mystery Sci		Energy (ETS)		Weather		Objects in Motion	
1	Sound (ETS) Mystery Sci PBA		Light		Sun movements: Day/Night PBA		Plants and Animals	
2	Plants (Seed Dispersal) Mystery Sci Mystery Sci2, PBA		Land and Water		Erosion (ETS)		Solids & Liquids	
3	Weather and Climate Mystery Sci		Patterns in Motion		Animals Habitats Change (ETS)		Organisms PBA	
4	Animals and Communication Mystery Sci		Changing Earth		Energy in Motion		Energy (electricity/ Waves (ETS) PBA	
5	Changes in Ecosystems Mystery Sci		Stars and Sky Mystery Sci, PBA		Materials and Properties (NGSS TEST FOLLOWS) Mystery Sci		Water/Human Impacts (ETS) Mystery Sci	
6	Ecosystems PBA, PBA		Human Impacts PBA		Weather & Climate (heat) PBA		Energy PBA	
7	Matter/ Atom	Chemical Reactions	Cells	Body Systems	Growth Reproduction	Genetics	Natural Selection	Evolution
8	Motion/ Energy	Energy Transfer	Space Systems	Earth History	Tectonic Plates PBA	Changing Earth (Rocks & Geological Features) (NGSS TEST FOLLOWS)	Waves/Energy (Earthquakes, E&M Forces) PBA	
PhyChem	Earth Energy/ Matter Cycles	Weather/ Climate Change PBA	Earth Materials/ Environ. Impact	Natural Resources	EM Waves in Technology PBA	Energy Sources/ Changes PBA	Electric Energy	
Biology	Bio Chemistry	Cells Bacteria Viruses	Heredity Genetics	Evolution	Diseases Population	Organism Interdependence PBA	Ecology	
Chemistry	Chemical Properties	Nuclear/ Atoms in the Universe	Atomic Structure/ Matter Properties	Compounds Bonding	Reactions/ Equations	Solutions/ Acids Bases PBA (NGSSTEST FOLLOWS)	Gas Behavior/ Organization	
Physics (or other electives)	Motion	ACCEL	2D Motion	Forces/ Work	Energy/ Electric	Wave , Sound, Light		Modern Physics