

Pottsville School District Curriculum Year at a Glance –Science

Pottsville School District 3rd grade Science “Year at a Glance”

	Life Cycles and Inherited Traits	Adaptations and Ecosystems	Forces and Interactions	Weather and Climate
	1 st Nine Weeks	2 nd Nine Weeks	3 rd Nine Weeks	4 th Nine Weeks
Standards	3-LS1-1 3-LS3-1 3-LS3-2 3-LS4-2 3-5 ETS1-1, 1-2, 1-3	3-LS2-1 3-LS4-1 3-LS4-3 3-LS4-4 3-5 ETS1-1, 1-2, 1-3	3-PS2-1 3-PS2-2 3-PS2-3 3-PS2-4 3-5 ETS1-1, 1-2, 1-3	3-ESS2-1 3-ESS2-2 3-ESS3-1 3-5 ETS1-1, 1-2, 1-3
Foundational Skills	Basic Math Skills Recognizing Patterns Recognizing Cause and Effect Observation Skills Analyzing & Interpreting Data Claim, Reasoning, Evidence	Basic Math Skills Recognizing Patterns Recognizing Cause and Effect Observation Skills Analyzing & Interpreting Data Claim, Reasoning, Evidence	Basic Math Skills Recognizing Patterns Recognizing Cause and Effect Observation Skills Analyzing & Interpreting Data Claim, Reasoning, Evidence	Basic Math Skills Recognizing Patterns Recognizing Cause and Effect Observation Skills Analyzing & Interpreting Data Claim, Reasoning, Evidence
Key Strategies or Action Words	Asking questions/defining problems Planning & Carrying out Investigations Analyzing and Interpreting Data Engaging in argument Obtaining, Evaluating, and Communicating information	Asking questions/defining problems Planning & Carrying out Investigations Analyzing and Interpreting Data Engaging in argument Obtaining, Evaluating, and Communicating information	Asking questions/defining problems Planning & Carrying out Investigations Analyzing and Interpreting Data Engaging in argument Obtaining, Evaluating, and Communicating information	Asking questions/defining problems Planning & Carrying out Investigations Analyzing and Interpreting Data Engaging in argument Obtaining, Evaluating, and Communicating information
Assessments of Power Standards: Formative and Summative	Observation Exit Slips Analyzing student work Think-Pair-Share Concept tests	Observation Exit Slips Analyzing student work Think-Pair-Share Concept tests ACT Aspire Interim	Observation Exit Slips Analyzing student work Think-Pair-Share Concept tests ACT Aspire Interim	Observation Exit Slips Analyzing student work Think-Pair-Share Concept tests ACT Aspire Interim

Pottsville School District 4th grade Science “Year at a Glance”

	Chapter or Unit(s)	Chapter or Unit(s)	Chapter or Unit(s)	Chapter or Unit(s)
	Target Dates: 1 st Nine Weeks	Target Dates: 2 nd Nine Weeks	Target Dates: 3 rd Nine Weeks	Target Dates: 4 th Nine Weeks
Standards	4-LS1-1 4-LS1-2 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 <ul style="list-style-type: none"> • Graphs • Scientific Process • Observations and Inferencing 	4-LS1-1 4-LS1-2 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 <ul style="list-style-type: none"> • Graphs • Scientific Process • Observations and Inferencing 	4-PS3-1 4-PS3-2 4-PS3-3 4-PS3-4 4-PS4-1 4-PS4-2 4-PS4-3 4-ESS3-1 4-ESS3-2 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 <ul style="list-style-type: none"> • Graphs • Scientific Process • Observations and Inferencing 	4-ESS1-1 4-ESS2-1 4-ESS2-2 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 <ul style="list-style-type: none"> • Graphs • Scientific Process • Observations and Inferencing
Foundational Skills	<ul style="list-style-type: none"> • Basic math skills (adding, subtracting, multiplying) • Using Science tools • Making accurate observations • Interpreting graphs and tables • Support claims with evidence 	<ul style="list-style-type: none"> • Basic math skills (adding, subtracting, multiplying) • Using Science tools • Making accurate observations • Interpreting graphs and tables • Support claims with evidence 	<ul style="list-style-type: none"> • Basic math skills (adding, subtracting, multiplying) • Using Science tools • Making accurate observations • Interpreting graphs and tables • Support claims with evidence 	<ul style="list-style-type: none"> • Basic math skills (adding, subtracting, multiplying) • Using Science tools • Making accurate observations • Interpreting graphs and tables • Support claims with evidence
Key Strategies or Action Words	<ul style="list-style-type: none"> • Observe • Infer • Scientific Process • Bar Graph • Line Plot • Pie Chart • Pictograph • Vertebrate 	<ul style="list-style-type: none"> • Observe • Infer • Scientific Process • Bar Graph • Line Plot • Pie Chart • Pictograph • Vertebrate 	<ul style="list-style-type: none"> • Energy (mechanical, electrical, light, thermal, and sound) • Waves • Natural resources • Fossil fuels 	<ul style="list-style-type: none"> • Plate tectonics • Fossils • Rock Cycle • Igneous, Metamorphic, Sedimentary rocks • Weathering Erosion

	<ul style="list-style-type: none"> • Invertebrate • Adaptations • Body Systems • Plants • Claim, evidence, reasoning 	<ul style="list-style-type: none"> • Invertebrate • Adaptations • Body Systems • Plants • Claim, evidence, reasoning 		
Assessments of Power Standards: Formative and Summative	<ul style="list-style-type: none"> • Unit Tests • Bell Ringers • Observation 	<ul style="list-style-type: none"> • Unit Tests • Bell Ringers • Observation • ACT Aspire Interim 	<ul style="list-style-type: none"> • Unit Tests • Bell Ringers • Observation • ACT Aspire Interim 	<ul style="list-style-type: none"> • Unit Tests • Bell Ringers • Observation

Pottsville School District 5th grade Science “Year at a Glance”

	Chapter or Unit(s)	Chapter or Unit(s)	Chapter or Unit(s)	Chapter or Unit(s)
	Target Dates: 1st 9 weeks	Target Dates: 2nd 9 weeks	Target Dates: 3rd 9 weeks	Target Dates: 4th 9 weeks
Standards	5-ESS2-1 5-ESS2-2 5-ESS3-1 5-ETS1-1 5-ETS1-2 5-ETS1-3	5-PS1-1 5-PS1-3 5-PS3-1 5-LS1-1 5-LS2-1 5-ESS3-1 5-ETS1-1 5-ETS1-2 5-ETS1-3	5-PS1-2 5-PS1-4 5-ESS3-1 5-ETS1-1 5-ETS1-2 5-ETS1-3	5-ESS1-1 5-PS2-1 5-ESS1-2 5-ESS3-1 5-ETS1-1 5-ETS1-2 5-ETS1-3
Foundational Skills	<p><u>Content:</u></p> <ul style="list-style-type: none"> -Earth’s Systems -Community impact on the environment <p><u>Science Skills:</u></p> <ul style="list-style-type: none"> -Using science tools -Understanding units of measurement -Converting units of measurement -Making accurate observations 	<p><u>Content:</u></p> <ul style="list-style-type: none"> -Matter and Energy in Organisms and Ecosystems -Community impact on the environment <p><u>Science Skills:</u></p> <ul style="list-style-type: none"> -Using science tools -Understanding units of measurement -Converting units of measurement 	<p><u>Content:</u></p> <ul style="list-style-type: none"> -Structure and Properties of Matter -Community impact on the environment <p><u>Science Skills:</u></p> <ul style="list-style-type: none"> -Using science tools -Understanding units of measurement -Converting units of measurement -Making accurate observations 	<p><u>Content:</u></p> <ul style="list-style-type: none"> -Space systems -Community impact on the environment <p><u>Science Skills:</u></p> <ul style="list-style-type: none"> -Using science tools -Understanding units of measurement -Converting units of measurement -Making accurate observations -Evaluating experimental design -Interpreting graphs and tables

	<ul style="list-style-type: none"> -Evaluating experimental design -Interpreting graphs and tables -Inferencing based on evidence/observations -Evaluating models -Supporting claims with evidence -Construct, use, and present oral and written communication using scientific reasoning 	<ul style="list-style-type: none"> -Making accurate observations -Evaluating experimental design -Interpreting graphs and tables -Inferencing based on evidence/observations -Evaluating models -Supporting claims with evidence -Construct, use, and present oral and written communication using scientific reasoning 	<ul style="list-style-type: none"> -Evaluating experimental design -Interpreting graphs and tables -Inferencing based on evidence/observations -Evaluating models -Supporting claims with evidence -Construct, use, and present oral and written communication using scientific reasoning 	<ul style="list-style-type: none"> -Inferencing based on evidence/observations -Evaluating models -Supporting claims with evidence -Construct, use, and present oral and written communication using scientific reasoning
Key Strategies or Action Words	<ul style="list-style-type: none"> -Modeling -IXL -Starters based on science skills -Vocabulary building (quizlet, notes) -Questioning strategies -Labs and group activities -Student guided phenomena exploration 	<ul style="list-style-type: none"> -Modeling -IXL -Starters based on science skills -Vocabulary building (quizlet, notes) -Questioning strategies -Labs and group activities -Student guided phenomena exploration 	<ul style="list-style-type: none"> -Modeling -IXL -Starters based on science skills -Vocabulary building (quizlet, notes) -Questioning strategies -Labs and group activities -Student guided phenomena exploration 	<ul style="list-style-type: none"> -Modeling -IXL -Starters based on science skills -Vocabulary building (quizlet, notes) -Questioning strategies -Labs and group activities -Student guided phenomena exploration

Assessments of Power Standards: Formative and Summative	<ul style="list-style-type: none"> -Google forms (starters, quizzes, skill check) -Unit test - Observations - Google classroom activities - Labs - ACT Aspire/Interims 	<ul style="list-style-type: none"> -Google forms (starters, quizzes, skill check) -Unit test - Observations - Google classroom activities - Labs - ACT Aspire/Interims 	<ul style="list-style-type: none"> -Google forms (starters, quizzes, skill check) -Unit test - Observations - Google classroom activities - Labs - ACT Aspire/Interims 	<ul style="list-style-type: none"> -Google forms (starters, quizzes, skill check) -Unit test - Observations - Google classroom activities - Labs - ACT Aspire/Interims

Pottsville School District 6th grade Science “Year at a Glance”

	Chapter or Unit(s) Energy	Chapter or Unit(s) Earth’s Systems, Human Impacts, Weather and Climate	Chapter or Unit(s) Structure, Function, and Information Processing	Chapter or Unit(s) Growth, Development, and Reproduction of Organisms
	Target Dates: 1st 9 weeks	Target Dates: 2nd 9 weeks	Target Dates: 3rd 9 weeks	Target Dates: 4th 9 weeks
*Standards	6-PS3-3 6-PS3-4 6-PS3-5	6-ESS2-4 6-ESS3-3 6-ESS3-4 6-ESS2-5 6-ESS2-6 6-ESS3-5	6-LS1-1 6-LS1-2 6-LS1-3 6-LS1-8	6-LS1-4 6-LS1-5 6-LS3-2
Foundational Skills	<ul style="list-style-type: none"> • Using science tools • Understanding units of measurement • Converting units of measurement • Making accurate observations • Evaluating experimental design • Interpreting graphs and tables • Inferencing based on evidence/observations • Evaluating models • Supporting claims with evidence • Construct, use, and present oral and written communication using scientific reasoning 	<ul style="list-style-type: none"> • Using science tools • Understanding units of measurement • Converting units of measurement • Making accurate observations • Evaluating experimental design • Interpreting graphs and tables • Inferencing based on evidence/observations • Evaluating models • Supporting claims with evidence • Construct, use, and present oral and written communication using scientific reasoning 	<ul style="list-style-type: none"> • Using science tools • Understanding units of measurement • Converting units of measurement • Making accurate observations • Evaluating experimental design • Interpreting graphs and tables • Inferencing based on evidence/observations • Evaluating models • Supporting claims with evidence • Construct, use, and present oral and written communication using scientific reasoning 	<ul style="list-style-type: none"> • Using science tools • Understanding units of measurement • Converting units of measurement • Making accurate observations • Evaluating experimental design • Interpreting graphs and tables • Inferencing based on evidence/observations • Evaluating models • Supporting claims with evidence • Construct, use, and present oral and written communication using scientific reasoning
Key Strategies or Action Words	<ul style="list-style-type: none"> • Design Insulated Cup Lab • Types of Matter 	<ul style="list-style-type: none"> • Earth’s Layers • Water Cycle • Natural Resources 	<ul style="list-style-type: none"> • Cells • Living and Non-Living Things • Organ Project 	<ul style="list-style-type: none"> • Sexual and Asexual Reproduction • Genes

	<ul style="list-style-type: none"> • Energy Transfer (Potential & Kinetic) • Temperature • Mass • Acids & Bases • Law of Conservation of Matter Demonstration 	<ul style="list-style-type: none"> • Pollution • Air Masses • Coriolis Effect • Ocean Influence on Weather • Natural Disasters 	<ul style="list-style-type: none"> • Stimuli Related to Brain Function 	<ul style="list-style-type: none"> • Traits • Environmental and Genetic Factors Influence Animal and plant Growth • Punnett Squares • Sheep Eye Dissection
Assessments of Power Standards: Formative and Summative	<ul style="list-style-type: none"> • Exit Slips • Labs • ACT Aspire Interims • Observation • IXL 	<ul style="list-style-type: none"> • Exit Slips • Labs • ACT Aspire Interims • Observation • IXL 	<ul style="list-style-type: none"> • Exit Slips • Labs • ACT Aspire Interims • Observation • IXL 	<ul style="list-style-type: none"> • Exit Slips • Labs • ACT Aspire Interims • Observation • IXL

*Standards: Each nine weeks include Engineering, Technology, and Applications of Science: 6-ETS1-1, 6-ETS1-2, 6-ETS1-3, 6-ETS1-4

	Chapter or Unit(s): Lab Safety, Scientific Methods, Force & Newton's Laws	Chapter or Unit(s): Waves, EM Spectrum	Chapter or Unit(s): Earth/Moon/Sun systems, Stars/Galaxies/Gravity	Chapter or Unit(s): Genetics, Evolution
	Target Dates: 1st Quarter	Target Dates: 2nd Quarter	Target Dates: 3rd Quarter	Target Dates: 4th Quarter
Standards	8-PS2-5 8-ETS1-4 8-PS2-1 8-PS2-2 8-PS3-1 8-PS3-2	8-PS4-1 8-PS4-2 8-PS4-3	8-ESS1-1 8-ESS1-2 8-ESS1-3 8-PS2-4	8-LS3-1 8-LS4-5 8-LS4-1 8-LS4-2 8-LS4-3 8-LS3-4 8-LS3-6
Foundational Skills	<ul style="list-style-type: none"> • ID lab equipment and how to use them • Using safe practices in the lab • Using safety equipment in lab • Design an experiment and ID the control and variables in it • Compare Newton's Laws • Calculate KE and PE • Analyze relationship between KE and mass and speed • Analyze relationship between distance and PE 	<ul style="list-style-type: none"> • ID parts of a wave • Calculate speed, wavelength, & frequency of waves • Compare/contrast sound waves to electromagnetic waves • Waves on a String Lab • Tuning Fork Lab • Compare/contrast different kinds of EM waves • Analyze behavior of colored light • Compare digital data to analog data transfers and music • Reflection, Refraction, Diffraction 	<ul style="list-style-type: none"> • Explain and model the different lunar phases, eclipses, seasons and why they occur • Compare/contrast relative distances and sizes between earth, moon, and sun • Explain how gravity keeps earth and moon in orbit • Explain/model how gravity affects the planets and our galaxy • Explain how gravity affects 2 objects with different masses 	<ul style="list-style-type: none"> • Explain the role of DNA in creating proteins and the role of proteins in everyday life • Use simple punnet squares to analyze ratios of dominant and recessive traits • Model how dominant and recessive traits influence a population • Explain how mutations in DNA happen and possible outcomes • Look for patterns in fossil record • Compare/contrast anatomy between modern organisms as well as between modern organisms and fossils
Key Strategies or Action Words	<ul style="list-style-type: none"> • Design experiments with multiple variables (electromagnets) • Identify controls, constants, and variables in an experiment • Demonstrate lab safety equipment 	<ul style="list-style-type: none"> • Calculations • Electromagnetic Superheroes • Colored Light simulator • Gamma Rays/Nuclear Energy/Chernobyl • Colored Light Mixer • Listening to the Sun 	<ul style="list-style-type: none"> • Scale model solar system (distance & size) • Scale model earth, moon, sun system (distance & size) • Model lunar phases • Model Earth's tilt and identify the season • Season simulator 	<ul style="list-style-type: none"> • Punnet squares • Dominant & Recessive traits • Queen Victoria pedigree (hemophilia) • Mouse Lab (populations with dominant and recessive traits)

Key Strategies or Action Words Continued	<ul style="list-style-type: none"> • Evaluate unsafe lab practices and how to correct them • Evaluate graphs and models • Newton’s Laws • Online simulator • Force gauges 			
Assessments of Power Standards: Formative and Summative	<ul style="list-style-type: none"> • Labs • Exams • Exit Slips/Low Stakes Quizzes • Observation 	<ul style="list-style-type: none"> • Labs • Exams • Exit Slips/Low Stakes Quizzes • Observation • Interims 	<ul style="list-style-type: none"> • Labs • Exams • Exit Slips/Low Stakes Quizzes • Observation • Interims 	<ul style="list-style-type: none"> • Labs • Exams • Exit Slips/Low Stakes Quizzes • Observation

	Chapter or Unit(s): Intro to Science, Safety, Skills; Biochemistry; DNA	Chapter or Unit(s): Cells; Systems Feedback	Chapter or Unit(s): Cycling of Matter and Energy; Cell Reproduction; Protein Synthesis	Chapter or Unit(s): Mendel & Meiosis, Evolution by Natural Selection
	Target Dates: 1st Quarter	Target Dates: 2nd Quarter	Target Dates: 3rd Quarter	Target Dates: 4th Quarter
Standards	ABI-LS1-1 ABI-LS1-2 ABI-LS1-3 ABI-LS1-6	ABI-LS12-3AR ABI-LS1-2 ABI-LS1-3	ABI-LS1-5 ABI-LS2-5 ABI-LS1-7 ABI-ESS2-6 ABI-LS2-3 ABI-LS1-4 ABI-LS2-4 ABI-LS3-1	ABI-LS3-2 ABI-LS4-4 ABI-LS3-3 ABI-LS4-5 ABI-LS4-1 ABI-LS4-7AR ABI-LS4-2 ABI-LS4-8AR ABI-LS4-3 ABI-ESS2-7
Foundational Skills	<ul style="list-style-type: none"> • Critical Thinking • Making Claims, Providing Evidence, Provide Reasoning (CER) • Design an experiment • Correctly use lab equipment and measuring skills • Create a graph and infer the contents of an unknown from the graph • Create a biological diagram • Calculate Protons, Neutrons, & Electrons • Explain how energy is related to the periodic table • Compare/contrast ionic, covalent, and hydrogen bonds • Compare/contrast properties of water • Compare/contrast inorganic and organic compounds • Identify organic functional groups 	<ul style="list-style-type: none"> • Explain the parts of the Cell Theory • Compare/contrast prokaryotes & eukaryotes • Explain why Surface Area to Volume ratio is important to living things • Describe functions of cell organelles • Describe the contents and function of the cytoskeleton, cell wall, and extracellular matrix • Describe the structure of cellular membranes • Compare/contrast different methods of movement across membranes • Describe the hierarchy of the structure of multicellular organisms • Explain homeostasis and feedback loops • Explain how electrical signals are sent throughout the nervous system 	<ul style="list-style-type: none"> • Explain the chemical processes in Photosynthesis • Explain the chemical processes in Cellular Respiration • Model the phases of mitosis • Compare/contrast and explain the chemical processes of transcription and translation of proteins • Analyze different technologies used to study DNA 	<ul style="list-style-type: none"> • Explain Mendel's contributions to genetics • Differentiate between various methods traits are inherited • Explain how meiosis occurs • Explain disorders associated with malfunctions in meiosis • Explain the history of Darwin's Theory • Apply the Hardy-Weinberg formula to evolution of populations • Compare geologic time and geologic processes to evolutionary processes

	<ul style="list-style-type: none"> • Compare/contrast proteins, carbohydrates, lipids, and nucleic acids • Describe the function of enzymes and enzymatic rates • Create an accurate model of DNA 	<ul style="list-style-type: none"> • Explain how the senses work • Explain the circulatory system and the immune system 		
Key Strategies or Action Words	<ul style="list-style-type: none"> • Polar Bear Dilemma • Cube Activities • Canister Conundrum • Skittles Lab • Green Beans The Wonderful Fruit • Leaf Drawings • Water Properties POGIL (Process Oriented Guided Inquiry Learning) • Biological Molecules POGIL • Water Properties Lab • Liver Peroxide Lab • DNA Extraction Lab • DNA Model 	<ul style="list-style-type: none"> • Osmosis and Diffusion Lab • Potato Osmosis Lab • Cell Size POGIL • Membrane Structure & Function POGIL • Bozeman Videos • Balancing Act – hormone feedback models • Feedback Systems POGIL • Howard Hughes Medical Institute video – Cells of the immune system • Making Sense of It All – Nervous System and Senses lab 	<ul style="list-style-type: none"> • Yeast & Molasses Lab • Lights Out Lab • Climate & Earth’s Systems (HHMI) • Plants & Energy CER Lab • Chromosome Manipulative Lab • Mitosis Flip Book • Protein Synthesis Activity • DNA Profiling 	<ul style="list-style-type: none"> • Case Studies • Karyotype Curiosities • Calculate probabilities in genetic crosses • Quackers and Cottontails Lab • Hardy Har Har – Hardy-Weinberg Investigation • HHMI: The Day The Mesozoic Died • Tree of Life Lab
Assessments of Power Standards: Formative and Summative	<ul style="list-style-type: none"> • Multiple content-based low-stakes quizzes • Quizzes over reading • Labs • DNA Model • POGILS • Exams • Observation/Questioning 	<ul style="list-style-type: none"> • Multiple content-based low-stakes quizzes • Quizzes over reading • Labs • POGILS • Exams • Observation/Questioning • Interim 	<ul style="list-style-type: none"> • Multiple content-based low-stakes quizzes • Quizzes over reading • Labs • Mitosis Flip Book • POGILS • Exams • Observation/Questioning • Interim 	<ul style="list-style-type: none"> • Multiple content-based low-stakes quizzes • Quizzes over reading • Labs • POGILS • Exams • Observation/Questioning

Pottsville School District -Anatomy “Year at a Glance”

	Unit(s): Terminology, Biochemistry, Cells, Tissues, Integumentary System	Unit(s): Skeletal, Muscular and Nervous Systems	Unit(s): Endocrine, Respiratory and Cardiovascular Systems	Unit(s): Digestion, Lymphatic, Urinary and Reproductive Systems
	Target Dates: 1st 9 weeks	Target Dates: 2nd 9 weeks	Target Dates: 3rd 9 weeks	Target Dates: 4th 9 weeks
Standards	HAP-LS1-1AR HAP-LS2-1AR HAP-LS3-1AR HAP-LS4-1AR HAP-LS5-1AR HAP-LS6-1AR HAP-LS7-HAP-8-1AR HAP-8-2AR HAP-8-3AR	HAP-LS1-1AR HAP-LS2-1AR HAP-LS3-1AR HAP-LS4-1AR HAP-LS5-1AR HAP-LS6-1AR HAP-LS7-HAP-8-1AR HAP-8-2AR HAP-8-3AR	HAP-LS1-1AR HAP-LS2-1AR HAP-LS3-1AR HAP-LS4-1AR HAP-LS5-1AR HAP-LS6-1AR HAP-LS7-HAP-8-1AR HAP-8-2AR HAP-8-3AR	HAP-LS1-1AR HAP-LS2-1AR HAP-LS3-1AR HAP-LS4-1AR HAP-LS5-1AR HAP-LS6-1AR HAP-LS7-HAP-8-1AR HAP-8-2AR HAP-8-3AR
Foundational Skills	Technical Writing CERs Lab Safety	Technical Writing CERs Lab Safety	Technical Writing CERs Lab Safety	Technical Writing CERs Lab Safety
Key Strategies or Action Words	Modeling Hands on Activities Science Labs Support with Evidence	Modeling Hands on Activities Science Labs Support with Evidence	Modeling Hands on Activities Science Labs Support with Evidence	Modeling Hands on Activities Science Labs Support with Evidence
Assessments of Power Standards: Formative and Summative	Unit Test Models and Projects Quizzes Bell Ringers/Exit Slips Homework Lab Reports/CERs	Unit Test Models and Projects Quizzes Bell Ringers/Exit Slips Homework Lab Reports/CERs	Unit Test Models and Projects Quizzes Bell Ringers/Exit Slips Homework Lab Reports/CERs	Unit Test Models and Projects Quizzes Bell Ringers/Exit Slips Homework Lab Reports/CERs

Pottsville School District –Environmental Science “Year at a Glance”

	Unit(s): Introduction to Environmental Science & Systems (Earth Systems, Process of Science, Economics and Policies)	Unit(s): Ecology (Biodiversity, Biomes, Populations, Ecosystems, Succession, Invasive Species)	Unit(s): Humans and the Environment (Pollution, Practices, Population, Waste, Environmental Health, Climate change)	Unit(s):Earth’s Resources and Sustainability (Energy, Environmental Health, Human Impact and Solutions)
	Target Dates: 1st 9 weeks	Target Dates: 2nd 9 weeks	Target Dates: 3rd 9 weeks	Target Dates: 4th 9 weeks
Standards	AR EVS-ESS2-2 AR EVS-ESS2-3 AR EVS-ESS2-5 AR EVS-ESS2-6 AR EVS-ESS3-5 AR EVS1-ETS1-1	AR EVS-LS2-1 AR EVS-LS2-2 AR EVS-LS2-6 AR EVS-LS2-8 AR EVS3-ETS1-3	AR EVS-PS3-1 AR EVS-PS3-2 AR EVS-PS3-3 AR EVS-PS3-4 AR EVS-ESS2-4 AR EVS2-ETS1-2	AR EVS-PS3-1 AR EVS-PS3-2 AR EVS-PS3-3 AR EVS-PS3-4 AR EVS-ESS2-4 AR EVS2-ETS1-2 AR EVS-ESS3-1 AR EVS-ESS3-2 AR EVS-ESS3-3 AR EVS-ESS3-4 AR EVS-ESS3-6 AR EVS-LS2-7 AR EVS-LS4-6 AR EVS4-ETS1-3
Foundational Skills	Technical Writing CERs Lab Safety	Technical Writing CERs Lab Safety	Technical Writing CERs Lab Safety	Technical Writing CERs Lab Safety
Key Strategies or Action Words	Modeling Hands on Activities Science Labs Support with Evidence	Modeling Hands on Activities Science Labs Support with Evidence	Modeling Hands on Activities Science Labs Support with Evidence	Modeling Hands on Activities Science Labs Support with Evidence
Assessments of Power Standards: Formative and Summative	Unit Test Models and Projects Quizzes Bell Ringers/Exit Slips Homework Lab Reports/CERs	Unit Test Models and Projects Quizzes Bell Ringers/Exit Slips Homework Lab Reports/CERs	Unit Test Models and Projects Quizzes Bell Ringers/Exit Slips Homework Lab Reports/CERs	Unit Test Models and Projects Quizzes Bell Ringers/Exit Slips Homework Lab Reports/CERs

Pottsville School District Physics “Year at a Glance”

	Chapter or Unit(s)	Chapter or Unit(s)	Chapter or Unit(s)	Chapter or Unit(s)
	Target Dates: 1 st Quarter	Target Dates: 2 nd Quarter	Target Dates: 3 rd Quarter	Target Dates: 4 th Quarter
Standards	P-PS1-1AR P-PS1-2AR AR P-PS2-1 AR P-PS2-2 AR P-ESS1-2 AR P-ESS1-4 AR P1-ETS1-2	P-PS2-1AR P-PS2-2AR P-PS2-3AR P-PS2-4AR P-PS2-5AR P-PS2-6AR AR P2-ETS1-3 AR P-PS2-4 AR P-PS2-5	AR P-PS3-1 P-PS3-1AR P-PS3-2AR P-PS3-3AR AR P-PS3-3 AR P-PS3-4 AR P3-ETS1-1 AR P3-ETS1-2 AR P3-ETS1-3 AR P3-ETS1-4	P-PS4-1AR P-PS4-2AR P-PS4-3AR AR P4-ETS1-4
Foundational Skills	Classification skills Observational skills Algebra and Trigonometry proficiency Draw system cycles Recognition of word roots Technical Writing/Drawing Lab Safety	Research skills Use of models Graphing and data organization Algebra and Trigonometry proficiency Read on grade level Technical Writing/Drawing CERs Lab Safety	Use units of measurement Recognize SI units Interpret abstract ideas Technical Writing/Drawing CERs Lab Safety Algebra and Trigonometry proficiency	Draw to scale Technical Writing CERs Lab Safety Develop arguments Technical Writing/Drawing Algebra and Trigonometry proficiency
Key Strategies or Action Words	Modeling Hands on Activities Science Labs Support with Evidence Mapping Extrapolate data CERs	Modeling Hands on Activities Science Labs Support with Evidence CERs	Modeling Hands on Activities Science Labs Support with Evidence CERs	Modeling Hands on Activities Science Labs Support with Evidence CERs
Assessments of Power Standards: Formative and Summative	Math Test Unit Test Demonstration	Math Test Unit Test Demonstration	Math Test Unit Test Demonstration	Math Test Unit Test Demonstration

Pottsville School District Astronomy “Year at a Glance”

	Chapter or Unit(s)	Chapter or Unit(s)	Chapter or Unit(s)	Chapter or Unit(s)
	Target Dates: 1 st Quarter	Target Dates: 2 nd Quarter	Target Dates: 3 rd Quarter	Target Dates: 4 th Quarter
Standards	A-ESS1-1AR A1-ESS1-2AR AR A1-ETS1-2 AR A-ESS1-4 A-ESS3-1AR A-ESS3-2AR AR A3-ETS1-	A-ESS2-1AR A-ESS2-2AR AR A-ESS1-6 A-ESS4-1AR A-ESS4-2AR AR A6-ESS1-1 A-ESS6-1AR AR A6-ETS1-1	AR A6-ESS1-1 A-ESS6-1AR AR A6-ETS1-1 AR A5-ESS1-1 A-ESS5-1AR A-ESS5-2AR	AR A7-ESS1-1 AR A-ESS1-3 A-ESS7-1AR AR A8-ESS1-2 A-ESS8-1AR AR A8-ETS1-3
Foundational Skills	Classification skills Observational skills Algebra and Trigonometry proficiency Recognition of word roots Technical Writing CERs Lab Safety	Research skills Use of models Graphing and data organization Algebra and Trigonometry proficiency Read on grade level Technical Writing CERs Lab Safety	Use units of measurement Recognize SI units Interpret abstract ideas Technical Writing CERs Lab Safety Algebra and Trigonometry proficiency	Draw to scale Technical Writing CERs Lab Safety Develop arguments Draw system cycles Algebra and Trigonometry proficiency
Key Strategies or Action Words	Modeling Hands on Activities Science Labs Support with Evidence Mapping Extrapolate data	Modeling Hands on Activities Science Labs Support with Evidence Planetary motion analysis	Modeling Hands on Activities Science Labs Support with Evidence Determine light years Greek Mythology	Modeling Hands on Activities Science Labs Support with Evidence Use the Hubble Constant Engineering Practice
Assessments of Power Standards: Formative and Summative	Unit test Vocabulary Exams Designing Models	Unit test Vocabulary Exams Scientific Research	Unit test Vocabulary Exams Book Reports	Unit test Vocabulary Exams

