**Joseph A McNeil IB PYP Candidate School Program of Inquiry 2020- 2021**

**Grades One through Six**

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| Hempstead Union Free School District Logo | **Who We Are** | **Where We Are in Place & Time** | **How We Express Ourselves** | **How the World Works** | **How We Organize Ourselves** | **Sharing the Planet** |
| **Transdisciplinary Theme** | **Inquiry into the nature of the self; beliefs and values; person, physical, mental, social and spiritual health; human relationships including families, friends, communities, and cultures; rights and responsibilities; what it means to be human** | **Inquiry into orientation in place and time; personal histories; homes and journeys; the discoveries, explorations and migrations of humankind; the relationship between and the interconnectedness of individuals and civilizations, from local and global perspectives** | **Inquiry into the ways in which we discover and express ideas, feelings, nature, culture, beliefs and values; the ways in which we reflect on, extend and enjoy our creativity; our appreciation of the aesthetic** | **Inquiry into the natural world and its laws, the interaction between the natural world (physical and biological) and human societies; how humans use their understanding of scientific principles; the impact of scientific and technological advances on society and on the environment.** | **Inquiry into the interconnectedness of human-made systems and communities; the structure and function of organizations; societal decision-making; economic activities and their impact on humankind and the environment** | **Inquiry into rights and responsibilities in the struggle to share finite resources with other people and other living things; communities and the relationship within and between them; access to equal opportunities; peace and conflict resolution.** |
| **Title** | **We are family** | **Unity in the Community** | **Sound** | **Objects in the Sky** | **Rules and laws** | **Living Things** |
| **1st Grade** | **Central idea**Society defines the roles of people in a family**Key concepts**: causation, perspective, function**Related concept:** impact, behavior, subjectivity**Lines of inquiry:****\***Citizenship**\***society function**\***knowledge of symbols | **Central idea**Community history provides cultural diversity around the world.**Key concepts:** causation, connection, perspective**Related concept:** pattern, relationships, beliefs**Lines of inquiry:****\***How people of different cultures are alike and different**\***family culture**\***identify places on a map using symbols & cardinal directions | **Central idea**Knowing that sound comes from different sources and has different properties helps us to understand that it is anessential resource**Key concepts:** function, causation**Related concept:** pattern, communication**Lines of inquiry:****\***Communicating with sound**\***properties of sound**\*** function of sound | **Central idea**The universe commands the sun, stars, and moon, to formulate the changes of the seasons which optimizes our natural human existence.**Key concepts:** change, causation, connection**Related concept:** cycles, patterns, systems**Lines of inquiry:****\***changes to the earth**\***solutions to prevent Wind and water from changing the land**\***Movement of the sun, moon, and earth | **Central idea**Government defines the roles of people in a community.**Key concepts:** responsibility, form, reflection**Related concept:** differences, relationships, interdependence**Lines of inquiry:****\***organization and function of government**\***Democracy**\***historical and political figures | **Central idea**Living things provide vital resources to sustain life.**Key concepts:** form, function, change**Related concept:** behaviors, structure, adaptation**Lines of inquiry:****\***Plant structure, life cycles and habitats**\***Environmental effects on living things**\***Life on land and in water |
| **Title** | **Active Citizenship** | **Geography of Communities** | **Change and Interdependence in Communities** | **Earth Surface** | **Rural, Urban, and Suburban** | **Environment**  |
| **2nd Grade**  | **Central idea**Responsible citizens show support for their country and community by being patriotic and helping others**Key concepts**: form, responsibility, causation**Related concept:** citizenship, diversity, religion, traditions**Lines of inquiry:****\***what determines our beliefs and values**\***what kind of thigs do good citizens do?**\***citizens responsibilities | **Central idea**Geography influences the lifestyles of different communities.**Key concepts**: causation, connection, perspective**Related concept:** civilization, migration, population**Lines of inquiry:**\*map skills/landforms\*how communities change over time\*changes in our local community | **Central idea**Communities change how they look and how they meet the needs of citizens over time**Key concepts**: change, connection**Related concept:** rights, values, structure, systems, roles, citizens**Lines of inquiry:****\***Past, present, future**\***constitutional democracy**\***urban, rural, suburban | **Central idea****Key concepts**: form, change, causation**Related concept:** borders, (social, political), geography, impact**Lines of Inquiry****\***Physical characteristics**\***Geographical characteristics**\***Geography, natural resources | **Central idea** Rural, urban, and suburban communities contribute, encourage and transform the world around us.**Key concepts**: form, connection, change**Related concept:** systems, impact, interdependence**Lines of inquiry:****\***goods and services**\***producers and consumers**\***supply and demand**\***how human choices influence the economy | **Central idea**Humans influence the environment of all living things.**Key concepts**: form, connection**Related concept:** adaptation, growth, interdependence, rights**Lines of inquiry:****\***interdependence within ecosystems**\***habitats**\***Interdependence of humans and animals |
| **Title**  | **Organisms** | **World communities** | **Making a Difference** | **Geography** | **Kenya** | **Molecules to Organisms** |
| 3rd Grade | **Central idea**Human inheritance and variation of traits affect all cultures**Key concepts**: change, connection, function**Related concepts:** cycles, pattern, beliefs, relationships**Lines of Inquiry****\***Family roles and responsibilities**\***How families are similar and different**\***How the definition of family is open to interpretation | **Central idea**World communities are interconnected through diverse cultures.**Key concepts**: change, connection, perspective**Related concepts:** adaptation, systems, relationships, communication, responsibility**Lines of inquiry**\*Economics: Goods and Services\*Rights and Responsibilities\*Maps & symbols | **Central idea**Human Rights are rights that each of us has been born with.**Key concepts:** perspective, responsibility**Related concepts:** prejudice, justice, rights**Lines of inquiry:**\*human rights\*cultural diversity\*social action and change | **Central idea**Geographic factors often influence where people settle and form communities**Key concepts:** function, connection, perspective**Related concepts:** Geography, locality, regions**Lines of inquiry:**\*geographic tools\*geographic regions\*globes and maps | **Central idea**Geographical landscape impact world communities.**Key concepts**: causation, connection, change**Related concepts:** adaptation, impact, interdependence**Lines of inquiry****\***geographic landscape**\***comparison of World communities\*governmental structure | **Central idea**Reproduction and the variation of traits is essential for continued existence of organisms.Key concepts: change, functionRelated concepts: cycles, growth, pattens, metamorphosesLines of inquiry\*plant and animal life cycles\*patterns in inherited traits\* |
| Title | **National and local Government** | **The Three Worlds** | **Building a Classroom Community** | **Engineering and Technology** | **Natural Resources and Hazards** | **Rocks and Fossils** |
| 4th Grade | **Central idea**National and New York State government share many common goals and powers but also reserve some powers of their own.**Key concepts:** responsibility, form, connection**Related concepts:** rights, structures, similarities, differences, relationships**Lines of inquiry****\***shared power between National and Stategovernments**\***National and State bill of rights**\***Citizenship | Central ideaNew York State provided an ideal geographic setting for Native Americans, Europeans, and Africans to develop unique cultures and diverse social, political, and economic interactions.Key concepts: form, connection, function Related concepts: structure, systems, patternsLines of inquiry\*How geography influences growth and development\*the participation of individuals in political systems\*How physical features and location shape the world of its inhabitants | **Central idea**Every generation has traditions and cultures to pass on telling a story.**Key concepts:** form, causation, connection**Related concepts:** similarities, differences, impact relationships**Lines of inquiry****\***How people preserve their culture**\***effects of culture on history (traditions)**\***how people groups express culture differently | **Central idea**Society and the natural world are influenced by science, technology, and engineering**Key concepts:** change, function, connection**Related concepts:** transformation, patterns, systems**Lines of inquiry****\***How engineers define problems and solutions**\***The importance of prototypes**\***How prototypes are tested and improved | **Central idea**Humans use energy and fuel derived from natural resource**Key concepts:** form, causation, connection**Related concepts:** energy, pollution, conservation**Lines of inquiry****\***renewable and nonrenewable resources**\***How people reduce land and water hazards**\***The impact of energy sources | **Central idea**Discoveries of fossil remains of extinct animals teach scientists about Earth’s environmental past.**Key concepts:** causation, change, form**Related concepts:** pattern, erosion, change**Lines of inquiry****\***How different layers of rocks change over time**\***fossils and ancient environment**\***patterns in fossils |
| Title  | **Who’s Who** | **A New World Rising** | **What is Government anyway** | **Geography in our Western Hemisphere** | **You need it, you want it, Do you have it?** | **Ecosystems** |
| 5th Grade | **Central idea**By sharing their customs, traditions, beliefs, ideas, and languages, different ethnic, national, and religious groups, have contributed to the cultural diversity of nations and regions in the Western Hemisphere.**Key concepts:** causation, connection, perspective**Related concepts:** diversity, religion, tradition**Lines of inquiry****\***How migration of groups leads to cultural diffusion**\***Cultural diversity**\***The sharing of customs, traditions, beliefs, and ideas | **Central idea**Early inhabitants of the Americas adapted to environmental challenges in a variety of ways.**Key concepts:** change, connection, causation**Related concepts:** civilization, migration, population**Lines of inquiry****\***How events occur at different times in history**\***How each civilization is unique**\***How complex societies and civilizations developed | **Central idea**Although the dominant form of government in the Western Hemisphere is some form of democracy, a variety of government systems exist side by side throughout the hemisphere.**Key concepts:** responsibility, form, function**Related concepts:** rights, values, structure, systems, roles, citizens**Lines of inquiry:****\***How governmental structures and functions vary from place to place**\***The struggle in the western hemisphere across time and place**\***how legal, political, and historical documents define the vales, beliefs, and principles of constitutional democracy | **Central idea**The geographic characteristics of the Western Hemisphere affect where people choose to live, the way people earn a living, and their everyday life**Key concepts:** connection, function, change**Related concepts:** borders (natural, social, and political), geography, impact**Lines of inquiry****\***Physical characteristics**\***the geographical characteristics**\***How geography, climate and natural resources affect the way people work | **Central idea**Economic activity relies on systems of production, exchange and consumption of goods and services**Key concepts:** function, responsibility, connection**Related concepts:** systems, impact, interdependence**Lines of inquiry****\***The role of supply and demand**\***the distribution of goods and services**\***our responsibilities as consumers | **Central idea****Interdependence within an ecosystem is essential for organisms’ survival****Key concepts**: change, connection, responsibility**Related concepts:** adaptation, growth, interdependence**Lines of inquiry****\***Dependence/codependence of organisms**\***influences of nature vs. nurture**\***Man’s influence on relationships in an ecosystem |
| Title  | **The study of Character** | **Early Civilizations** | **Classical Civilization** | **Energy Transfer** | **World Religions** | **Interaction across the Eastern Hemisphere** |
| 6th Grade | **Central idea**Consider complex character traits, to investigate how setting shapes characters.**Key concepts**: form, change, perspective**Related concepts:** differences, transformation, relationships, beliefs**Lines of inquiry****\***Human relationships and how it relates to setting and innate characters**\***Human adaptation to society**\***Cultural influences on beliefs and values | **Central idea**Society changes because of human development and/or environmental changes**Key concepts:** form, causation, responsibility, change**Related concepts:** structure, pattern, values, growth**Lines of inquiry****\***How human being developed from the Paleolithic age to the Neolithic age**\***How archeologist can use tools to draw conclusions**\***Artifacts tell us a great deal about society | **Central idea**Classical civilizations share many characteristics and continue to influence modern life**Key concepts:** connections, responsibility, change, function**Related concepts:** interdependence, justice, adaptation, systems**Lines of inquiry** **\***How ancient civilizations created a foundation for today’s society**\***How laws and structures from past impacted the world**\***How geographic factors impact the development of society | **Central idea.** Energy is essential for life and all other process on Earth**Key concepts**: function, causation, connection, reflection**Related concepts:** systems, impact, relationships, evidence**Lines of inquiry****\***How energy interacts with and changes objects**\***Analyze a systems kinetic and potential energy**\***How relative positions of objects in a system change | **Central idea**World religions are both similar and different as they play a big part in the world today**Key concepts**: form, connection, causation, perspective**Related concepts:** similarities, system, impact, beliefs**Lines of inquiry****\***how world religions share many beliefs and yet differences**\***How religious belief systems are based on mutual values**\***How world religion continues to play a significant role in the world today | **Central idea**Geography determines and influences history**Key concepts:** causation, responsibility, reflection, connection**Related concepts:** impacts, citizenship, evidence, interdependence**Lines of inquiry****\***How the trade networks promoted the exchange of many things**\***Pivotal events in history**\***How complex societies and civilizations ensured adaptation to their survival |

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