



Township of Ocean Schools

Assistant Superintendent
Office of Teaching and Learning

SPARTAN MISSION:

Meeting the needs of all students with a proud tradition of academic excellence.

Curriculum Development Timeline

School: Ocean Township High School

Course: Discovery Science

Department: Science

Board Approval	Supervisor	Notes
July 2013	Patrick Sullivan	Born Date
December 2017	Patrick Sullivan	Update Standards
August 2018	Patrick Sullivan	Revisions

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Week	Marking Period 1	Week	Marking Period 3
1	Character/Core Values	11	Mindset/The Power of Energy/Truth
2	Goal Setting	12	Changing State or Energy
3	Routines and Habits	13	Emotions
4	<u>The Power of Action</u> -Goal Setting	14	Energy and the Body
5	Leadership	15	The Science of Mindfulness
Week	Marking Period 2	Week	Marking Period 4
6	The Power of the Body	16	The Power of You
7	Health/Nutrition	17	The Science of Relationships
8	Stress, Disease and Healing	18	Who Am I now?
9	The Senses	19	Your Proposal
10	Alterations of Reality/Illusions	20	Your Legacy

*Mondays will also be Mentor Mondays, where students will have guest presenters and speakers to share their knowledge within their specific passion or area of expertise. This will give students expert knowledge and advice in regards to specific information. Students will also engage in interview style questioning from guests. This will be formulated individually and collaborated between each student's "Think Team"

*Scientific research is also continuously expressed throughout the course with the presentation of current scientific articles by each student and collaboration within their "Think Team"

Time Frame	1 week
Topic	
Character/Core Values	

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Essential Questions

- -What is character? What are characteristics?
- -How do people create impact?
- -What is the importance of self on civilization?
- -How do you identify yourself?
-What makes you an individual?
- -What is a team?
- -Why is partaking in teamwork important?
- -How does respect impact your perspective?
- -What are personal traits one embodies as a team player? Leader?
- -How does your character impact different environments? How does this define your role?
- -How do you begin to think like a team player?
- -How do you begin to understand the concept of discovery?
- -How can we prove science everywhere?
- -Why are humans different when compared to other species?
- -What does it mean to be unbiased? Why is this important within the science community?

Enduring Understandings

- -Science is proven through repetitive experimentation, which can lead to the formation of a theory.
- -Society is controlled by morals and governed by law.
- -The character of an individual is how they identify with the world and how the world perceives them.
- -The characteristics one embodies will determine specific opportunities within a society.
-Characteristics are how an individual defines themselves and the role they partake in within a community.
- -The impact an individual has on a community can be expressed through exponential growth and surveying a select and random population.
- -The individual within a human population has immediate and full control only on their own thinking and choice of action.
- -Choice and freedom are values our country and government have been created around.
- -Civilization is the organized way in which we live here in the United States, this is the general idea in which the population is governed.
- -A person's identity is controlled by their viewpoints or opinions from a self to global scale.
- -An individual is a single measured unit of a population.

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- -A team can only exist with multiple members who share a common goal of success or completion.

Alignment to Standards

- HS-LS1-2
- LA.9-10.RST. 10.1&10.3
- MA.9-12.N-Q.A.1
- HPE.2.1.12.A
- HPE.2.2.12.C

Key Concepts and Skills

- -Understanding the concept of respect and how this impacts not only the individual's identification but also the impact one has within the community and on a global scale.
- -Being guided to identify the self and the role one plays within the environment
- -Characteristics that enhance the quality of life are ideal and considered optimal
- -One must understand the role they are personally playing and enhance that in order to impact the community
 - Curiosity is a characteristic embodied by the best scientists
 - Team efforts are those that impact the community, which then compounds to impact the globe
 - Human ability to collect data and implement action based on collective conclusions separates us from other known species.
 - Through discovery and other forms of applied sciences, new forms of understanding and scientific proof are developed.
 - Experimentation involves case studies and collected prior knowledge.
 - The scientific method is a concept we use actively within our lives.
 - Error within experimentation leads to new ideas, concepts and themes for improvement within the selected hypotheses.
 - Being open minded and unbiased are important characteristics to embody within a discovery based inquiry
 - The field of science offers explanation to the questions of life; mystery or unknown are terms used for areas where science has yet to prove or investigate.
- -Evidence is used in order to formulate hypotheses, which are the basis of new scientific discoveries.

Learning Activities

Interviews- Students will be asked reflective questions about themselves, their perceptions, and opinions on modern day topics.

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-Open analysis and response to prompt questions, which are answered within their discovery portfolios.
 **(Portfolios provide all quantitative and qualitative data collected within the classroom.)
 Self view and World view portraits/ character reflection
 What is your name? Create a personal logo
 Role in the world identification write up
 Teach us what you love? Presentation and collaborated activity
 -Find your Passion assignment

Assessments

- Discovery Portfolios are collected and graded periodically. This is determined by time span and style of assignment.
- -Benchmark Assessment
- -Formative Assessments
- Response questions
- Ability to collect data and data that is accepted by the scientific community as factual, not pseudo science.
- Project based assignments
- Reflective creations
- -Summative Assessment
- *Please see rubrics for each assignment, provided for each student prior to assignment completion

21st Century Skills

Creativity	X	Critical Thinking	X	Collaboration	X	Communication	X
Life & Career Skills	X	Information Technology	X	Media Literacy	X		

Interdisciplinary Connections

- Math: Percentages, statistics, and all quantitative data
- Language Arts: writing components daily
- Psychology: concepts of thinking and how the mind controls our thoughts and perception
- Sociology: main concepts are derived from this study of society and collective prompts for discussion

Technology Integration

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- PowerPoint Presentations
- Data Projector
- Elmo Incorporation
- DVD/VHS/Disc Demonstration
- YouTube Content Shorts
- Each Student has Access to Their Own Chromebook
- Google Drive / Classroom
- Integration of Cell Phone Usage by Students to Access Internet During Lecture/Discussions/Lab
- All Laboratory Equipment is Technology

8.1 Educational Technology- All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaboratively and to create and communicate knowledge.

Time Frame	1.5 weeks
Topic	
Routines and Habits/Communication/Goal Setting/Leadership	
Essential Questions	
<ul style="list-style-type: none"> ● -What are the parts to the brain and how do they influence or control us? <ul style="list-style-type: none"> - How does the mind control the body? - How does response and stimuli influence the mind? - What are values? - What are beliefs and how are they influenced? - What does nature vs nurture mean? - Why does psychology play such an important part in human existence? - How does your belief system influence the way you live or act within your life? - What is a routine? - How are routines developed? - How do you identify healthy habits vs destructive or unhealthy habits? - How can humans change responses? How are responses triggered? ● - How do neurology, physiology and psychology influence each other? 	
Enduring Understandings	

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- Neurology is the study of the brain and its counterparts
- Identified parts of the brain are in control of specific functions within the body.
 - The body is connected from cellular level to organism level; this is also supported by organization and structural function within the characteristics of a living organism
 - Response to stimuli is another characteristic to life; 8 in total
 - The nervous system is in control of the responses within the body
 - -The mind consists of 2 parts which run the entire organism; subconscious and conscious
 - The repetition for a measured amount of time creates a new habit; which is also formed consciously or subconsciously.
 - A person can manipulate brain neuroplasticity through repetition of new thoughts and beliefs
 - A new habit can be formed within 30 days of repetition
 - Humans response from the subconscious mind can be influenced by false beliefs or beliefs no longer in alignment to fears humans today face

Alignment to Standards

- HS-LS1-2
- HS-LS1-1

Key Concepts and Skills

- -Ability to determine the subconscious mind and conscious mind
- -Abstract thinking for scenarios or hypothetical situations
 - Uncovering of belief systems within the student
 - Uncovering of conflicting beliefs of subconscious
 - Formation healthy habits and replacement of unhealthy habits
 - Collaboration on old beliefs and new beliefs
- -Comparative analysis of population beliefs and values
 - Discovery of individual belief system and core values in alignment to the individual
 - Guidance and assistance in replacing "stories" formed by one's perception within the mind
- - Being able to identify Fear vs Love Perception

Learning Activities

- Lecture of Power of the Mind
- -Identification of the Parts of the Brain

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- -Labeling Activities- Group Pinata
- -Connect the Neuron Brain activity
- -Determining Core Values and Beliefs
 - 3 Elements of Practical Psychology
 - 6 Human Needs lecture and examples
 - 6 Human needs exercise and collaboration
 - Beliefs and Modeling
- -Fear vs Love
- -Introduction to Neuro Conditioning Lecture and Exercise
 - The Power of Belief
- -The Power of Change
 - The Science Behind Momentum
- -Decision Making
- -The Science behind Proper questioning

Assessments

- -Label the Brain
- -Formative Assessments
- -Label the Body Group Activity
- -Connect the Neuron
- -Completion of surveys and reflective questioning
- -Formation of hypotheses and Analytical conclusion questions
- -Discovery Portfolio responses
- -Summative Assessment
- -*Please see rubrics for each assignment, provided for each student prior to assignment completion

21st Century Skills

Creativity	X	Critical Thinking	X	Collaboration	X	Communication	X
Life & Career Skills	X	Information Technology	X	Media Literacy	X		

Interdisciplinary Connections

- Math: Percentages, statistics, and all quantitative data
- Language Arts: writing components daily
- Psychology: concepts of thinking and how the mind controls our thoughts and perception

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- Anatomy and Physiology: the constructive breakdown of the brain
- Sociology: main concepts are derived from this study of society and collective prompts for discussion

Technology Integration

- PowerPoint Presentations
- Data Projector
- Elmo Incorporation
- DVD/VHS/Disc Demonstration
- YouTube Content Shorts
- Each Student has Access to Their Own Chromebook
- Google Drive / Classroom
- Integration of Cell Phone Usage by Students to Access Internet During Lecture/Discussions/Lab
- All Laboratory Equipment is Technology

Time Frame	1 week
Topic	
Power of the Body/Nutrition	
Essential Questions	
<ul style="list-style-type: none"> • -What is communication? • -What are the types of communication? <ul style="list-style-type: none"> - What other factors influence communication? - How do humans communicate within themselves and then to others? - How do humans communicate non verbally? - How do messages travel from the brain and then within the body? - How do we complete tasks? - What is perspective? - How is our perspective determined? - How do we measure understanding? - How is knowledge measured? - What is the difference between being knowledgeable and experienced? 	

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- Why is it important to be honest and express your own truth or perspective?
- How do you debate successfully?
- Why are certain topics considered controversial?
- Why is there conflictual situations between religion and science?
- - How do we become unbiased if humans all possess their own belief or opinion?

Enduring Understandings

- -Organisms communicate in many different ways.
 - Humans communicate differently because of emotions and human empathy will sway specific results
- -Controversial means that certain situations create a large amount of human emotion, usually because large populations are having their beliefs countered.
 - Topics that include many opinions create larger areas for debate
 - Environment of an organism does influence how communication occurs
- -Human communication is understood through practice and is guided through social collaboration.
- -Human communication influences the level of understanding between other individuals.
 - Compromise is an agreement between two opposing forces of influence or study.
 - Perspective is something only humans endure because of their conscious ability to experience and reflect
 - Knowledge and wisdom are insufficiently measured by formal assessment; growth is determined by progress or expansion of understanding of specific concepts.
- - Science is proven by facts and is able to be measured by multitudes of data.

Alignment to Standards

- HS-LS2-8
- HPE.2.1.12.E
- SOC.9-12.1.4
- CAEP.9.2.12.C

Key Concepts and Skills

- Rational and unbiased discussion skills
- Unbiased research of controversial topics; being able to identify pro and con perspectives based on specific scenarios or circumstances
- Ability to understand the surrounding or involved perspectives
- Conflict management

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- -Understanding different types and forms of communication between organisms and what is specific to humans
 - Modeling communication in all forms
 - Reading body language or social cue examples
- - Understanding the use of language and tone

Learning Activities

- -Perception ppt
- -Perception of the World presentation
- -Flip the script
- -Growth vs Fixed Mindset examples and identification
- -Reflection questions

Assessments

- Perception of the World Presentation
- -Formative Assessments
- --Discovery Portfolio responses
- -Summative Assessment
- -*Please see rubrics for each assignment, provided for each student prior to assignment completion

21st Century Skills

Creativity	X	Critical Thinking	X	Collaboration	X	Communication	X
Life & Career Skills	X	Information Technology	X	Media Literacy	X		

Interdisciplinary Connections

- Math: Percentages, statistics, and all quantitative data
- Language Arts: writing components daily
- Psychology: concepts of thinking and how the mind controls our thoughts and perception
- Sociology: main concepts are derived from this study of society and collective prompts for discussion

Technology Integration

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Time Frame	2 weeks
Topic	
Health, Wellness/Stress//Mindset	
Essential Questions	
<ul style="list-style-type: none"> - Why is it important to set goals? - How can the mind be used to accomplish certain goals? - How do we properly use a planner? - Why is organization or a system necessary in order to be successful? - How can visualization affect your outcomes? - What is the science behind success? - Why are motivation, determination and focus key factors within one's measurable success? - How do we define success? - What are vision boards and how do they pertain to your life? - What is a life or mission statement? - Why do writing and speaking count as action? - How is reflection an important part of growth? - How do practice and action align? - How are failures and lessons aligned? - How do we rewrite our "stories"? - Why is leadership an important concept to understand? - How do leaders impact the world? - What are characteristics of a leader? - How does leadership impact social situations? 	

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- - How can humans become balanced between thinking, planning and action?

Enduring Understandings

- Goal setting is how we can compartmentalize tasks to be completed to optimize the rate of success.
- Goals are set in order to have a direction to realign thoughts or actions
- Goals provide guidelines for a plan of action.
- Goals are created from one's purpose or from tasks that need to be completed by individual or group aka deadlines.
- The mind is what analyzes and visualizes specific outcomes for scenarios lived within own life or surrounding society.
- Organization provides a method or way of accomplishing multiple checkpoints within a larger task
- A systematic routine is what machines are able to do but this is because they exist without emotions and feelings or human error.
- Order is hard to maintain within chaos and this also reduces the percentage of statistical error due to the separation from distraction.
- Visualization is scientifically proven to blueprint new pathways within the mind.
- Visualization can be as effective as actual practice, especially when pertaining to motor skill activities.
- Success can be measured by many different factors depending on one's beliefs or goals.
- Success can pertain to the accomplishment of a goal or purpose.
- Success can be rewarded, which interferes with societal perception and how we tangibly measure.
- Vision boards are motivators for the accomplishment of set goals and aspirations in action.
- The accomplishment of goals can be interfered with due to poor mental connection or emotional connection to the outcome of goals.
- Practicing organized achievements enhances the rate of success, especially in teens.
- Reflection is an important part of the scientific method, in order to evaluate and ensure the most successful outcomes are achieved.
- Leadership is how standards are set and how the societal masses are informed or influenced.
- -An influencer or a leader can either be positive or negative, depending on the message and intention of the individual.
- -Mastery comes from repetitive modeling, immersion, and spaced repetition

Alignment to Standards

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- HPE.2.1.12.E
- CAEP.9.2.12.C
- HS-LS2-8
- VPA.1.3.12

Key Concepts and Skills

- How to complete a weekly planner
- How to set goals in the proper format
- Commitment and dedication to one's practice
- Participation in discussion
- Ability to construct blueprint and plan of action
- Ability to write life or mission statement
- Application of visualization throughout the day
- Guided check ins and reflective analysis throughout the day
- Monitoring of goals and accomplishments
- Development of new routine to implement for remainder of semester
- -Ability to master a task

Learning Activities

- Greatness epidemic lecture
- -The Movie- "I Am"
- -Development of life statement
- The Dickens Process- Limiting Beliefs- rewriting of stories
 - Weekly Planner
 - Goal sheet
 - Blueprint completion
- -Vision board- A Day in the Life
 - Wheel of life
 - 3 Pillars to Progress
- -Development of Strategies
- -Eliciting a Strategy
- -Importance of Order and Sequence
 - Completion of strategy plan
- -Mastery steps

Assessments

- Life statement compilation
- -Formative Assessments
 - Goal sheet and strategy plan explanation and completion

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<ul style="list-style-type: none"> - Vision board • --Discovery Portfolio responses • -Summative Assessment • -*Please see rubrics for each assignment, provided for each student prior to assignment completion 							
21st Century Skills							
Creativity	X	Critical Thinking	X	Collaboration	X	Communication	X
Life & Career Skills	X	Information Technology	X	Media Literacy	X		
Interdisciplinary Connections							
<ul style="list-style-type: none"> • Math: Percentages, statistics, and all quantitative data • Language Arts: writing components daily • Psychology: concepts of thinking and how the mind controls our thoughts and ability to accomplish • Sociology: main concepts are derived from this study of society and collective prompts for discussion • Humanities: creation of vision board and integration of literacy to express emotions 							
Technology Integration							
<ul style="list-style-type: none"> • PowerPoint Presentations • Data Projector • Elmo Incorporation • DVD/VHS/Disc Demonstration • YouTube Content Shorts • Each Student has Access to Their Own Chromebook • Google Drive / Classroom • Integration of Cell Phone Usage by Students to Access Internet During Lecture/Discussions/Lab • All Laboratory Equipment is Technology 							

Time Frame	2.5 weeks
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Topic

Power of Energy/Truth/Emotions/Energy and the Body

Essential Questions

- How is the body formed and replenished?
- How are the systems within the body connected?
- How is action created within the body?
- How is energy conducted through the body?
- -How is potential energy converted into kinetic energy within the body?
- -What are nutrients?
- -How does biochemistry underline the basis for nutritional understanding?
 - How does organic chemistry play a role in the molecular makeup of the human?
 - How does the mind influence the construction of the physical body?
 - How does being mindful to wellness affect the quality of life within a human?
 - How do organisms who no longer physically compete meet their needs for survival?
 - What nutrients are essential to the chemical makeup of the human body?
- -How are we physically comparative to other species?
 - What is energy?
- -How do diet and wellness align within the human species?
 - What components or factors influence our wellness?
 - How does American diet or daily habits differ from other societies?
 - How does diet align with preventative care?
 - How does the body heal itself?
- -What systems are involved with immunity and repair?
- -What systems are controlled by the subconscious mind?
 - What methods are used to heal the body?
 - What is the difference between illness and disease?
 - What is the importance of awareness to one's body?
- -How does placebo effect influence the measurement of success within treatments?
- -How does the mind influence the healing within the body?
- -What does a balanced life look like?
- -What does a balanced diet look like?
- -What is stress?
- -Why is stress a global issue?
- -What are some disruptions within the body controlled by stress?
- -How does stress affect the body's ability to function?
- -What is homeostasis and how is this related to diet and the internal environment of the body?

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- -What are diseases?
- -What are the comparisons between eastern and western medicine?
 - What are the fields of science that pertain to wellness?
 - How do pharmaceuticals influence the economy?
 - How does the government regulate health care?
- -Why is medical insurance necessary?
 - What is homeopathic therapy?
- - What is alternative medicine?

Enduring Understandings

- -The body is made from an organized compilation of systems
 - The body includes support systems that ensure rejuvenation of cells, energy and repair.
- -The body is made up of cells which then organize themselves up to a full organism.
- -The instructions on how to make the body are contained within cells and is called DNA
 - The energy used within the body is referred to as ATP
- -ATP is derived from the chemical breakdown of molecules within the body from food source to element.
 - Chemical reactions are continuously happening within the body which enable the body to complete specific necessary tasks to maintain survival
- -Competition is a need for survival within the animal kingdom; also a symbiotic relationship.
 - Homeostasis is necessary for the conduction of systems, in turn ensuring survival
 - The organs within the body are negatively affected from acidic environments.
- -Humans quality of life are measured by the balance of needs that ensure survival.
 - In order for case studies to be accepted by the scientific community it must be repeated within an approved environment
 - A case study must include an experimental group and a control or placebo group, which provide qualitative and qualitative evidence.
 - Chemistry supports the elemental and nutritional proof necessary to maintain an operating body.
- -Understanding the scientific advancements within food and how they affect the body
 - Choosing beneficial nutritional choices supports the efficacy of the body, which also affects the mind.
- -The brain is the logical center and is affected by the available supply of nutrients within the body.
 - Thoughts create energy, which signal neurons within the brain to complete specific energetic message transfers within the brain and nervous system.
 - Brain activity is measurable using various modes of technology.
 - Stress releases specific adrenal inhibitors which interfere with the homeostasis

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- of the body.
- The endocrine system is negatively affected by stress, which interferes with hormonal balance.
 - Preventative lifestyles enhance quality of life and predicted life span
 - American diet and lifestyle is correlated to the percentage of disease and illness within our society
 - Pharmaceuticals is the #1 income producing category within the United States.
 - Treatments provided by governmental agencies must be scientifically supported and funded/approved by FDA.
 - Eastern medicine is based on homeopathic therapies and principles.
- -Homeopathy is not considered scientific because of the variant flaws within the claim of the category.
 - -Using the term cure is science based and must include statistical evidence and support

Alignment to Standards

- HPE.2.1.12.E
- HPE.2.1.12.B
- HPE.2.1.12.C
- HS-LS1-5
- HS-LS1-6

Key Concepts and Skills

- -Familiarity and understanding of the anatomical organization within the body
 - Identification of the organs and the systems they belong to
 - Balancing a diet
 - Identifying nutrients
 - Analyzing of food labels and nutritional facts
 - Researching symptoms and correlating them with specific imbalances within the body
 - Being aware of which symptoms are aligned with specific illnesses or diseases
 - Understanding what preventative measures can be practiced to enhance their quality of life
 - Using environmental factors and identifying the risks to specific systems
 - Collaboration of a meal plan
 - Comparative analysis of specific nutritional choices
- - Creating a balanced individual meal plan and budget food list

Learning Activities

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- -Biochemistry lecture
 - Essentials to Wellness lecture
 - Western vs Eastern medicine presentation
 - Digestion lab
 - Meal plan guide
- -What the Health movie
 - Emotions and Food
 - The Philosophy of Health
- -What is Health activity?
- -The Health behind Cells
 - The Body's Response to Poison
- -8 Gifts of A Vital Life
 - Lymphatic system analysis
 - The Power of Water
 - The Imbalanced pH
 - Alkaline vs acidic foods
 - pH lab
 - Taste test
 - The science behind food
 - Sugar: A Secret addiCtive
 - What is the dairy industry up to?
- - Who is in charge here?

Assessments

- Creation of a wellness plan
- -Formative Assessments
 - Eastern vs Western medicine presentation
 - Analysis and conclusion of nutrition, lymphatic and pH labs
- -Completion of analysis questions and sheets
 - Nutritional journal
- -Response questions to movie
- --Discovery Portfolio responses
- --Summative Assessment
- -*Please see rubrics for each assignment, provided for each student prior to assignment completion

21st Century Skills

Creativity	X	Critical Thinking	X	Collaboration	X	Communication	X
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Life & Career Skills	X	Information Technology	X	Media Literacy	X	
Interdisciplinary Connections						
<ul style="list-style-type: none"> • Math: Percentages, statistics, and all quantitative data • Language Arts: writing components daily • Psychology: concepts of thinking and how the mind controls our thoughts and perception. Also, to understand the reasoning behind decision making and food. • Sociology: main concepts are derived from this study of society and collective prompts for discussion • Health: importance of maintaining an optimal body to maintain optimal health; the different areas of wellness. • Physical education: The importance of fitness, stretching and yoga practices, the art of walking and mindful breathing 						
Technology Integration						
<ul style="list-style-type: none"> • PowerPoint Presentations • Data Projector • Elmo Incorporation • DVD/VHS/Disc Demonstration • YouTube Content Shorts • Each Student has Access to Their Own Chromebook • Google Drive / Classroom • Integration of Cell Phone Usage by Students to Access Internet During Lecture/Discussions/Lab • All Laboratory Equipment is Technology 						

Time Frame	1 week
Topic	

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The Senses

Essential Questions

- -What are the senses of the body?
 - How are the senses connected?
 - How does the surrounding environment influence the accuracy of the senses?
 - How does the mind control the senses?
 - How do the senses affect our response system?
 - How are certain senses impaired?
 - Can we improve or enhance our senses?
 - How can we manipulate the senses?
 - What role does technology play on our senses?
- - How has the human body adapted to change?

Enduring Understandings

- The senses within the body are sight, touch, taste, hear and smell.
- The senses are connected through the body's other systems, especially the nervous system.
- The sense of smell and taste are directly connected, without smell, we would not taste.
- Environmental factors such as pollution have affected our senses.
- Humans have adapted to the environment but have also removed ourselves from the environment, which has impacted our senses.
- Through the use of our senses, we create our reality or perception of the world.
- The stimuli we receive through are senses alerts our central nervous system, which creates a response throughout the body.
- The nervous system processes the information collected through the senses, which gives us explanation to why or what is occurring.
- Certain technology has given humans the ability to repair or make accommodations for damaged senses.
- Through meditation and visualization the senses can be isolated and focused on individually, providing peak performance
- -Overuse of technology has altered our response time and negatively influenced certain senses.
 - Because of technology, there has been applications developed and global communication has been enhanced.
 - Human development has been impacted by environmental changes.
 - Food modification and product development through engineering have altered the natural evolution of the human body
- - Vestigial structures show how organisms have reduced unnecessary anatomy or

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sense structure.

Alignment to Standards

- HPE.2.1.12.E
- HS-LS1-3
- HS-LS1-7
- HS-LS4-1

Key Concepts and Skills

- Identification of the separate senses
- -Collaboration and task performance assessment using the senses
 - Manipulation and alteration of the senses based on the understanding of each sense
 - Ability to recognize key components necessary for the optimal functioning of sense organs
 - Comparative analysis through lab based experiments and results
 - Ability to collect and research specific data
- - Creative design for technological advancements in regards to the senses

Learning Activities

- The Senses Lab
- The Senses identification activity
- Monitoring the senses
- Sense overload
- - Does this make sense? Sense enhancement activity and presentation

Assessments

- -Sense identification activity
- -Formative Assessments
 - Sense enhancement presentation
- -Results to the senses lab
- --Discovery Portfolio responses
- --Summative Assessment
- -*Please see rubrics for each assignment, provided for each student prior to assignment completion

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21st Century Skills							
Creativity	X	Critical Thinking	X	Collaboration	X	Communication	X
Life & Career Skills	X	Information Technology	X	Media Literacy	X		
Interdisciplinary Connections							
<ul style="list-style-type: none"> • Math: Percentages, statistics, and all quantitative data • Language Arts: writing components daily • Psychology: concepts of thinking and how the mind controls our thoughts and perception • Sociology: main concepts are derived from this study of society and collective prompts for discussion 							
Technology Integration							
<ul style="list-style-type: none"> • PowerPoint Presentations • Data Projector • Elmo Incorporation • DVD/VHS/Disc Demonstration • YouTube Content Shorts • Each Student has Access to Their Own Chromebook • Google Drive / Classroom • Integration of Cell Phone Usage by Students to Access Internet During Lecture/Discussions/Lab • All Laboratory Equipment is Technology 							

Time Frame	1.5 weeks
Topic	
Illusions, Alteration of Reality and Mindset	
Essential Questions	

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- -What is an illusion?
 - How do we measure reality?
- -What is meant by alternate, virtual and simulated reality?
 - How does your mindset alter your reality?
- -How can your perception be altered?
- -How do optical illusions work?
- -How is critical thinking manipulated and what is a riddle?
 - How does an IQ test work?
 - What happens to the brain when narcotics are consumed?
- -What happens to the body when narcotics are consumed?
 - How does emotional pain interfere with your perception of reality?
 - What are the side effects of consistent abuse?
 - How does neuroplasticity play a role in treatment for narcotic abuse?
 - How can monitoring mindset contribute to healing?
- -How can structuring mindset contribute to forming healthy habits?
- -How does your mindset subconsciously control you?
 - How has social media contributed to changes in our standards or expectations?
- -How does advertising and marketing influence our ideals?
 - How can we determine an illusion from a manipulative trick?
- -Is mind control regulated? How does hypnosis work?
 - What is NLP?
- -Can you reprogram your perception?

Enduring Understandings

- Science is based on fact and repetitive outcomes
- An illusion is a thing that is or most likely wrongly perceived or interpreted by the senses
- Your reality is based upon your experience and your perception of the events that have occurred or are presently occurring in your life
- Reality can be mimicked and virtually expressed through a manipulation and overload of the senses
- There are healthy and unhealthy ways to alter your reality
- A virtual reality is created through technology and is manipulated by coding.
- A simulation is designed to give the experience of actually partaking in it without actually physically being there.
- Reality is measured by the individual and is determined through emotions, feelings, thoughts and outcomes.
- Mindset influences your reality because your senses depict certain triggers in order to release specific messages to the body. This is proven through fight or flight mode aka survival mode.
- Optical illusions are created in order to trick the senses into seeing or

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experiencing specific sensations.

- IQ tests are performed by clinical psychologists and determine the efficacy of certain parts of the brain and the situations they control.
 - IQ tests are used to measure cognitive skills and can identify learning impairments or disabilities
 - Learning abilities and styles can contribute to a person's ability to receive information
 - A riddle is a question or analytical problem whose answer is not obvious due to the complexity of steps involved or the ability for the problem to be solved in a straightforward way.
 - Narcotics vary in the level of alteration they cause to the brain
 - Narcotics include alcohol, drugs and specific abuse of items that cause hallucination or mental impairment
 - Statistics show the high school students are at risk to be pressured into the use of narcotics
 - Narcotics are prescribed by doctors with proper dosage and instructions, this usage is monitored
 - Narcotics have long term effects on the mental and physical health of an individual
 - Serious impairment and even death are caused by the consumption of narcotics
 - Neuroplasticity is being studied as a alternate way to break addiction within individuals
 - Mindset is a factor that contributes to one's willingness to consume narcotics
 - Mental control and understanding of the risks involved with consumption of narcotics can reduce the statistical percentage of students engaging in such behavior.
- -Using narcotics has been linked to emotional and mental disruption within an individual
 - -Trauma and environmental standards also contribute to the use of narcotics
 - - Hypnosis is performed and studied under clinical settings and can also be used as therapeutic reformatting of the mind

Alignment to Standards

- HPE.2.1.12.E
- HS-LS2-8
- HPE.2.3.12.B
- HPE.2.3.12.C
- HPE.2.3.12.C

Key Concepts and Skills

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<ul style="list-style-type: none"> - Understanding the proper responses to balanced senses - Observing optical illusions - Collaboration of others perspectives - Understanding the viewpoint of others - Identifying the alterations - Ability to critical think and reflect - Abstract analysis - Create a survey - Create their own optical illusion - Discussion and response to analytical riddles and problems • - Researching mental health, psychosis, and delusion 							
Learning Activities							
<ul style="list-style-type: none"> - What Reality do you live in? • -Lecture on Narcotics <ul style="list-style-type: none"> - IQ Test - Personality test - Optical illusion lab - Virtual reality lab - Where is your mind? - Neuroplasticity research presentation • - Manipulation of the Sense lab 							
Assessments							
<ul style="list-style-type: none"> - Test results • -Formative Assessments • -Narcotic explanation • -Analysis and conclusion questions • -Mindset presentation <ul style="list-style-type: none"> - Mindset control plan • -Summative Assessment 							
21st Century Skills							
Creativity	X	Critical Thinking	X	Collaboration	X	Communication	X
Life & Career Skills	X	Information Technology	X	Media Literacy	X		

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Interdisciplinary Connections

- Math: Percentages, statistics, and all quantitative data
- Language Arts: writing components daily
- Psychology: concepts of thinking and how the mind controls our thoughts and perception
- Health: the side effects of narcotic intake
- Instructional technology/ STEAM- creation of optical illusions
- Sociology: main concepts are derived from this study of society and collective prompts for discussion

Technology Integration

- PowerPoint Presentations
- Data Projector
- Elmo Incorporation
- DVD/VHS/Disc Demonstration
- YouTube Content Shorts
- Each Student has Access to Their Own Chromebook
- Google Drive / Classroom
- Integration of Cell Phone Usage by Students to Access Internet During Lecture/Discussions/Lab
- All Laboratory Equipment is Technology

Time Frame	1.5 weeks
Topic	
The Power of Energy- Curiosity, Truth and Changing Your State	
Essential Questions	
<ul style="list-style-type: none">• -What is energy?• -Why is energy important?• -How is energy everywhere?	

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- -What is energy made from?
- -How do we measure energy?
 - How do we replenish energy?
- -What are the scientific laws to energy?
- -How did we discover energy?
- -What are the forms of energy and how are they determined or categorized?
 - What does it mean to be curious?
 - How do we discover the truth of what is?
 - How does science prove and offer truth?
 - How does science negate belief?
 - How do we measure human energy?
 - How do we determine the truth?
 - How do we measure the truth?
 - Why do we manipulate the truth?
- -How does lying affect humans?
 - What does it mean to change your state?
 - What are different options for changing your state?
- -How does the changing of state influence the emotions or feelings within the body?

Enduring Understandings

- -Energy is defined as the amount of work able to be completed, whether mentally or physically.
 - Energy is also defined as the power from chemical or physical resources in order to provide other forms of energy to the earth.
 - Energy is what runs machines that keep our world running but it is also what rely on for life
- -If an organism has no energy it is dead
 - If a machine does not produce energy, it is broken or malfunctioning
 - Energy is measured in wavelengths
 - Energy is measured in joules
 - Energy is replenished through the consumption or use of resources, whether renewable or nonrenewable
 - Energy was discovered and formulated into laws by scientists, especially Albert Einstein who stated $E= mc^2$
 - Energy has been around since the beginning of time but technological advancements allowed is to study it and its different forms
- -Curiosity is a characteristic that is connected to the consistent questioning of circumstances
- -Curiosity allows us to prove or disprove ideas using the scientific method
 - Truth is why we seek answers, to understand the reasoning behind specific circumstances
 - Truth is manipulated in order to appeal to the societal masses or the individual

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- being deceived
- Truth or understanding of situations creates an open minded and well rounded thought process within an individual
- Changing state is when we can alter the flow of energy in our body, which impacts the perception or receiving center of the brain
- -Changing state switches the neurotransmitter pathways within the brain
- -Changing state allows stagnant energy or an overflow of energy to be released without it manifesting in the physical body

Alignment to Standards

- HPE.2.1.12.E
- HS-LS1-2

Key Concepts and Skills

- -How to inquire properly
- -How to ask well rounded questions
- -Ability to collect and analyze responses
 - Ability to measure energy using different techniques
- -The identification of different forms of energy
 - Researching new technologies and devices
 - Presentation of data and analysis/conclusions
- -Ability to seek or research the truth within global or even personal topics or issues
- - Participation in changing own state and collaborating findings

Learning Activities

- -Can you feel that?
 - Level up
 - Solar design models
 - You can't handle the truth?!
 - Let's change state
- - Modes of state change

Assessments

- Energy questionnaire
- -Formative Assessments
 - Self run machines activity
- --Discovery Portfolio responses

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- -Summative Assessment
- -*Please see rubrics for each assignment, provided for each student prior to assignment completion

21st Century Skills

Creativity	X	Critical Thinking	X	Collaboration	X	Communication	X
Life & Career Skills	X	Information Technology	X	Media Literacy	X		

Interdisciplinary Connections

- Math: Percentages, statistics, and all quantitative data
- Language Arts: writing components daily
- Psychology: concepts of thinking and how the mind controls our thoughts and perception
- Sociology: main concepts are derived from this study of society and collective prompts for discussion
- Physics- identifying forms of energy
- History- comparative data from 100 years ago and now

Technology Integration

- PowerPoint Presentations
- Data Projector
- Elmo Incorporation
- DVD/VHS/Disc Demonstration
- YouTube Content Shorts
- Each Student has Access to Their Own Chromebook
- Google Drive / Classroom
- Integration of Cell Phone Usage by Students to Access Internet During Lecture/Discussions/Lab
- All Laboratory Equipment is Technology

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Time Frame	1.5 weeks
Topic	
Emotions	
Essential Questions	
<ul style="list-style-type: none">• -What are emotions?• -What are feelings and how are they different than emotions?<ul style="list-style-type: none">- How is the mind and body directly affected by feelings and emotions?- What are the different categories of emotions?- What triggers different emotions and feelings within the body?- How can changing state affect our emotions?• -What does emotion stand for?<ul style="list-style-type: none">- How does language and verbage affect emotions and feelings?- How do we express different feelings?• -How do feelings change our perceptions?<ul style="list-style-type: none">- Why are feelings and emotions important to understand?- How do feelings affect our ability to react logically?- How do emotions express themselves in the body?• -How do emotions influence the health of an individual?<ul style="list-style-type: none">- How do focus and energy align?- How are responses measured?- What is the scale or levels of emotions?- How can emotions change the physical state of an individual?- How do vibrations of energy manifest in the body?- How do events or circumstances influence our feelings?• - How do specific emotions correlate to specific disease or illnesses?	
Enduring Understandings	
<ul style="list-style-type: none">- Emotions are physically felt and create a physical response in the body- The meaning of emotion depends on the individual- Emotional responses can be manipulated by changing the mental meaning we attach to specific feelings- Feelings are developed within the brain and are triggered by experience and emotions are how these feelings are felt or how they physically change the body- Emotions vary in levels of vibration and how they register energetically within	

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the body

- Emotions are triggered by chemical responses in the brain
- Feelings can be sensed
- Emotions are affected by the mind and body
- Feelings last longer than emotions
- Moods are a combination of factors, from environmental, physiological, and mental state
- Language and the use of words can trigger emotions
- Certain words create emotional responses within individuals based on experiences
- Emotion also stands for energy in motion
- Physical responses are triggered by feelings and emotions by neurological chemicals
- Certain emotions create measurable responses within the body
- Specific areas of the body are affected by specific thoughts because they create physical change
- -The mind can control the amount and which chemical is released in the body
 - The reptilian part of our brain, the basal ganglia, contributes to false responses in the body
 - Certain ailments and diseases are triggered by the oldest area of our brain
 - Our instinct can interfere with our logic
- - Our instinct can release chemicals that are unnecessary to the situations we are in.

Alignment to Standards

- HPE.2.1.12.E
- HS-LS2-8
- HPE.2.2.12.A

Key Concepts and Skills

- -Students will be able to identify own feelings and emotions
- -Ability to identify different or the range of emotions expressed
- -Being able to identify emotions based on body language
 - Being able to identify the feelings based on verbage and sense of energy
 - Understanding how certain environments influence feelings and emotions
- - Identifying the connection between emotions and physical state

Learning Activities

- Modeling emotions
- The Movie- Inside Out

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- Charades
- -Lecture on emotions and feelings
- -Emotions vs Feelings

Assessments

- Response question to inside out
- -Formative Assessments
 - Story writing using emotions
 - Discovery Portfolio responses
- -Summative Assessment
- -*Please see rubrics for each assignment, provided for each student prior to assignment completion

21st Century Skills

Creativity	X	Critical Thinking	X	Collaboration	X	Communication	X
Life & Career Skills	X	Information Technology	X	Media Literacy	X		

Interdisciplinary Connections

- Math: Percentages, statistics, and all quantitative data
- Language Arts: writing components daily
- Psychology: concepts of thinking and how the mind controls our thoughts and perception
- Sociology: main concepts are derived from this study of society and collective prompts for discussion
- Performing arts: students abilities to act out emotions based presented feelings

Technology Integration

- PowerPoint Presentations
- Data Projector
- Elmo Incorporation
- DVD/VHS/Disc Demonstration
- YouTube Content Shorts
- Each Student has Access to Their Own Chromebook
- Google Drive / Classroom
- Integration of Cell Phone Usage by Students to Access Internet During Lecture/Discussions/Lab

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- All Laboratory Equipment is Technology

Time Frame	1 week
Topic	
The Science of Mindfulness	
Essential Questions	
<ul style="list-style-type: none">• -What is mindfulness?• -How can we practice mindfulness in our daily routine?<ul style="list-style-type: none">- How can science prove an enhancement in the quality of life when mindfulness is practiced?- What are the benefits to mindfulness?- What are the tools and practices used to be a mindful individual?• -How can we prove or exhibit mindfulness through self experimentation?<ul style="list-style-type: none">- How does mindfulness enhance health?• -How can individual mindfulness influence society or the way information is presented to the world?	
Enduring Understandings	
<ul style="list-style-type: none">• -Mindfulness is the ability to concentrate or stay focused on the present moment• -Mindfulness allows for you to be in a state of flow, which enhances accuracy while completing a task• -Being mindful reduces mental and emotional imbalances• -Mindfulness has been proven to reduce the negative statistics pertaining to the health and wellness of people, especially youth or teens<ul style="list-style-type: none">- Quality of life is measured by emotional, mental and physical well being- Science has created a platform to provide routine behaviors to create a systematic method to practice mindfulness• - Since an individual can only ensure the survival of one's self, mindfulness allows individuals to enhance or raise their own awareness, which can influence surrounding individuals	
Alignment to Standards	

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- HPE.2.1.12.E
- HS-LS2-8
- HPE.2.2.12
- HPE.2.2.12.C

Key Concepts and Skills

- -Ability to measure mindfulness
- -Determining the best mindset to accomplish certain tasks
 - Evaluating the enhancements within one's own life
 - Recording changes in behavior or efficacy in the completion of tasks
- - Teach others and collaborate a mindful lesson

Learning Activities

- -Lecture on the science of mindfulness
 - What's on your mind?
 - Mindful race
 - Mindful moments
 - Mindful planner
- - Balanced mind

Assessments

- -Accuracy of the completion of tasks
- -Formative Assessments
- -Discovery Portfolio responses
- -Summative Assessment
- -*Please see rubrics for each assignment, provided for each student prior to assignment completion

21st Century Skills

Creativity	X	Critical Thinking	X	Collaboration	X	Communication	X
Life & Career Skills	X	Information Technology	X	Media Literacy	X		

Interdisciplinary Connections

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- Math: Percentages, statistics, and all quantitative data
- Language Arts: writing components daily
- Health: Being present allows the mind and body to function at optimal health
- Physical Education- the ability to complete concentration games
- Psychology: concepts of thinking and how the mind controls our thoughts and perception
- Sociology: main concepts are derived from this study of society and collective prompts for discussion

Technology Integration

- PowerPoint Presentations
- Data Projector
- Elmo Incorporation
- DVD/VHS/Disc Demonstration
- YouTube Content Shorts
- Each Student has Access to Their Own Chromebook
- Google Drive / Classroom
- Integration of Cell Phone Usage by Students to Access Internet During Lecture/Discussions/Lab
- All Laboratory Equipment is Technology

Time Frame	2 weeks
Topic	
The Power of You, Technology and Relationships	
Essential Questions	
<ul style="list-style-type: none">- What is your power?• -What is your purpose?• -What do you strive for?• -How can you use technology to benefit your life?• -How has social media changed the way we view our lives?<ul style="list-style-type: none">- What are the pros and cons of technology?	

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- How can the internet answer everything?
- -How can you become connected and disconnected at the same time?
- -How does marketing influence the way we use our phones?
- -How can we advocate for the world through the use of technology?
 - Why is it important to understand the relationships around us?
 - What are the different categories of relationships?
 - How can relationships become unhealthy?
 - What are the prerequisites for relationships?
- -How does intimacy contribute to our emotional health?
 - How do relationships influence who we are individually?
- -What are the misconceptions of relationships?
- -How do we heal from ended relationships?
 - Why is communication so important in relationships?
 - What are the most important relationships to acquire?
- - How do our human needs heavily influence our relationships?

Enduring Understandings

- -An individual only has power to influence others, not control.
 - The purpose of an individual varies due to their awareness of themselves and what their truth is
 - An individual is in alignment with their purpose when passion and joy are achieved emotionally
 - Humans strive for success and acceptance, which are just understatements of love
 - Technology has become a huge influence on the way society lives day to day
 - In the world, there are more people who have cellular devices than toilets
 - Social media is a platform that interferes with response systems and create emotional chemical releases similar to narcotics
 - Technology's effects rely on use, consistency, and emotional and mental states
- -Technology can be a trigger and creates virtual realities
 - Social media can influence the behavior of individuals
- -Social media has changed reality and the standards of living
- -Technology has changed the way we communicate, which is creating conflict with our emotions
 - Relationships are important to have because they offer connection, which humans need to thrive in life
- -Support systems offer individuals perspectives that can be used when emotions or feelings are interfering with the mental balance
- -Relationships and emotions vary depending on each individual's experience
- -Relationships and symbiosis are important to human survival
 - Relationships create the foundation for food chain and food webs within an

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ecosystem

- -Human relationships are different than other organisms because of emotional conflict
 - Relationships can help or hurt an individual's progress of discovery
 - Healthy relationships offer guidance, growth and conflict resolution
- - Communication is needed in relationships due to the variant perspectives and experiences of individuals

Alignment to Standards

- HPE.2.1.12.E
- HS-LS2-8
- HPE.2.2.12
- HPE.2.2.12.C
- HPE.2.4.12.A

Key Concepts and Skills

- Ability to monitor and evaluate technological use
- Identifying true wants and needs
- -Using social media
- -Researching technological influence on human behavior
 - Surveying the student body and staff
 - Creating a technological app that will support their mission
- - Ability to analyze and reflect on the relationships of their life

Learning Activities

- The Power lecture
- -Relationships lecture
 - Where did your power go?
 - App usage and review
 - Relationships wheel
 - Your better half is yourself
 - What are your boundaries?
- -Who do you rely and why?

Assessments

- -Surveys
- -Formative Assessments
 - Relationship wheel
 - What do you love about you presentation

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- -Discovery Portfolio responses
- -Summative Assessment
- -*Please see rubrics for each assignment, provided for each student prior to assignment completion

21st Century Skills

Creativity	X	Critical Thinking	X	Collaboration	X	Communication	X
Life & Career Skills	X	Information Technology	X	Media Literacy	X		

Interdisciplinary Connections

- Math: Percentages, statistics, and all quantitative data
- Language Arts: writing components daily
- IT: using of technology
- Psychology: concepts of thinking and how the mind controls our thoughts and perception
- Health: forming healthy boundaries and relationships
- Sociology: main concepts are derived from this study of society and collective prompts for discussion

Technology Integration

- PowerPoint Presentations
- Data Projector
- Elmo Incorporation
- DVD/VHS/Disc Demonstration
- YouTube Content Shorts
- Each Student has Access to Their Own Chromebook
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Time Frame	3 weeks (including final)
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Topic

Living Your Best Life, Who Am I now, and Final Reflections (project)

Essential Questions

- -What does it mean to live you best life?
 - How can we measure if we are living our best life?
 - How can you enhance the life of others by being the best version of yourself?
 - Why doesn't everyone live their best life?
 - What does a balanced life look like?
 - How have you personally changed throughout this course?
 - What changes have been made to your life?
 - How has this impacted the people around you?
 - How can we measure growth?
 - What tools have been implemented to create this life standard?
 - How can growth continue after discovery science?
 - When does personal growth end?
 - How can you implement what you have learned in the future?
 - Knowing what you know now, how can you enhance the OTHS community?
- -What changes do you think that can be made within our school to enhance the lives of other students?
- -What is your legacy or what do you wish to leave for others?
 - How do you influence others?
- -What do you think are the most important concepts that you have learned throughout this course?

Enduring Understandings

- -Living one's best life is determined by making the most appropriate decisions for each individual
 - Choices that enhance the vitality, quality of own life and that of others, and sense of fulfillment are precursors to living a life of design
 - Choices are made by an individual which is why boundaries, self worth, and purpose must be determined
 - Changes are constantly happening in any environment
 - Adaptations are consistently necessary to continue survive
 - Personal growth is a continuous practice due to our environments and experiences
 - Major areas of life must be met in order to feel balanced
 - Balance is different for each individual depending on the focus for their personal life

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Meeting the needs of all students with a proud tradition of academic excellence.

- Collaboration, belief and encouragement are detrimental to one's structure
- -Reflection and action are ways to implement best choices in the future
- -Legacy is determined by one's impact on others
 - People influence each other with their beliefs, thoughts, actions and power.
- ***Variant answers depending on the level of participation, engagement and the commitment of each student.

Alignment to Standards

- HS-LS1-2
- LA.9-10.RST. 10.1&10.3
- MA.9-12.N-Q.A.1
- HPE.2.1.12.A
- HPE.2.2.12.C

Key Concepts and Skills

- -Application of the tools and information presented throughout the course
 - How to maintain decision making skills that are beneficial to self growth and leadership
 - How to create and implement a school wide or communal project that enhances the lives of others
 - How to determine their own legacy and measure accomplishments achieved
 - Measuring the efficacy of their plans and ideas
- -Collaborating with classmates
 - Showing mastery within certain practices
- ** See rubric for final project

Learning Activities

- -Creation and implementation of best life plan
- -Lecture on how to live your best life
- -Lecture and collaboration on a balanced life
- -Reflection video
- -Mentor reach out
- -Mentor reach up
- -Communal project
- - Comparative analysis of reflections throughout the year

Assessments

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- -Best life plan
- -Formative Assessments
- -Reflection videos
- --Discovery Portfolio responses
- -*Please see rubrics for each assignment, provided for each student prior to assignment completion
- -Summative:Completion and final paper
- Final project presentation and implementation

21st Century Skills

Creativity	X	Critical Thinking	X	Collaboration	X	Communication	X
Life & Career Skills	X	Information Technology	X	Media Literacy	X		

Interdisciplinary Connections

- Math: Percentages, statistics, and all quantitative data
- Language Arts: writing components daily, final paper
- Psychology: concepts of thinking and how the mind controls our thoughts and perception
- Sociology: main concepts are derived from this study of society and collective prompts for discussion
- IT- creation of reflection videos

Technology Integration

- PowerPoint Presentations
- Data Projector
- Elmo Incorporation
- DVD/VHS/Disc Demonstration
- YouTube Content Shorts
- Each Student has Access to Their Own Chromebook
- Google Drive / Classroom
- Integration of Cell Phone Usage by Students to Access Internet During Lecture/Discussions/Lab
- All Laboratory Equipment is Technology

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Modifications (ELL, Special Education, Gifted and Talented, and 504 Plans)

ELL:

- Work toward longer passages as skills in English increase
- Use visuals
- Introduce key vocabulary before lesson
- Teacher models reading aloud daily
- Provide peer tutoring
- Use of Bilingual Dictionary
- Guided notes and/or scaffold outline for written assignments
- Provide students with English Learner leveled readers.

Supports for Students With IEPs:

- Allow extra time to complete assignments or tests
- Guided notes and/or scaffold outline for written assignments
- Work in a small group
- Allow answers to be given orally or dictated
- Use large print books, Braille, or books on CD (digital text)
- Follow all IEP modifications

Gifted and Talented:

- Create an enhanced set of introductory activities (e.g. advance organizers, concept maps, concept puzzles)
- Provide options, alternatives and choices to differentiate and broaden the curriculum
- Organize and offer flexible small group learning activities
- Provide whole group enrichment explorations
- Teach cognitive and methodological skills
- Use center, stations, or contracts
- Organize integrated problem-solving simulations
- Propose interest-based extension activities
- Expose students to beyond level texts.

Supports for Students With 504 Plans:

- Follow all the 504 plan modifications
- Text to speech/audio recorded selections
- Amplification system as needed
- Leveled texts according to ability
- Fine motor skill stations embedded in rotation as needed

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- Modified or constrained spelling word lists
- Provide anchor charts with high frequency words and phonemic patterns

Integrated 21st-Century Skills and Career Ready Practices (NJSL 9):

All students will demonstrate how to:

- Act as a responsible and contributing citizen and employee.
- Apply appropriate academic and technical skills.
- Attend to personal health and financial well-being.
- Communicate clearly and effectively and with reason.
- Consider the environmental, social and economic impacts of decisions.
- Demonstrate creativity and innovation.
- Employ valid and reliable research strategies.
- Utilize critical thinking to make sense of problems and persevere in solving them.
- Model integrity, ethical leadership and effective management.
- Plan education and career paths aligned to personal goals.
- Use technology to enhance productivity.
- Work productively in teams while using cultural global competence.

Standard 9.1 21st-Century Life and Career Skills: All students will demonstrate the creative, critical thinking, collaboration, and problem-solving skills needed to function successfully as both global citizens and workers in diverse ethnic and organizational cultures.

Standard 9.2 Personal Financial Literacy: All students will develop skills and strategies that promote personal and financial responsibility related to financial planning, savings, investment, and charitable giving in the global economy.

Standard 9.3 Career Awareness, Exploration, and Preparation: All students will apply knowledge about and engage in the process of career awareness, exploration, and preparation in order to navigate the globally competitive work environment of the information age.

Standard 9.4 Career and Technical Education: All students who complete a career and technical education program will acquire academic and technical skills for careers in emerging and established professions that lead to technical skill proficiency, credentials, certificates, licenses, and/or degrees.

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