1. **Intro to MedTrek and Health Careers** - Guest Presenter: Nurse
   Goal: To begin building relationships between youth and mentors, understand the module flow and experiences, and the benefits of gathering evidence of learning through MedTrek's health science career exploration.
   - Orientation/Logistics
   - Mentor/Mentee Relationships – Ice Breakers
   - Intro to Health Careers – 1 – 5 Levels
   - “Body Stories”
   - Confidentiality
   - Gathering Evidence of Learning (PLPs)

2. **Intro to Vital Signs** - Guest presenter: Nurse
   Goal: Explore tools and techniques for used by health professionals for assessing vital signs and protecting patient safety.
   - Gloving & De-gloving
   - Stethoscope
   - Reflex testing
   - Blood Pressure

3. **Microscopy** Guest Presenter: Science Educator, Pathologist (Could be Field Trip to Hospital)
   Goal: To learn how to use a microscope and its value as a tool for pathology.
   - Use of Microscopes and the concept of magnification
   - Observing hair, fingernails, skin, cheek swab, etc.
   - Intro to Pathology
   - Comparison of abnormalities

4. **Emergency Medical Systems** Guest Presenter: EMS/Ambulance Staff, Emergency Room Nurse
   Goal: To learn and practice emergency response skills, first aid and indicators of acute illness.
   - Safe Scene
   - Mock 911 Call
   - Basic First Aid – Bleeding and Splinting (first aid supplies and fake blood)
   - Indicators of Illness or Infection – (fake mucus and emesis)

5. **The Nervous System** – Guest Presenter: Neurologist, Brain researcher/Educator
   Goal: To explore the four areas of brain function, brain development and implications of brain injuries.
   - Card sort activity on brain functions: Voluntary, Involuntary, Memory and Learning
   - Four activity stations to simulate brain functions
   - Brain development
   - Brain injury.
6. **Surgery** – Guest Presenter: Surgical nurse, anesthesiologist, surgeon
Goal: To experience the tools and techniques surgeons work to perfect and the support team process that is required to complete a surgical procedure.
   - Laparoscopic surgery simulator
   - Donning/Doffing PPE
   - Suturing

7. **Field Trip to Hospital or Sim Lab**
Goal: To experience first-hand a medical or healthcare facility’s department’s systems, functions and skill expectations of the practitioners in the selected health science career.

8. **Mentor’s Choice – Local Resource or Field Trip #2**
   - Dental Health
   - Nutritionist
   - Mental Health
   - Physical Therapist
   - Occupational Therapist
   - Maternal and Child Health
   - Epidemiology
   - Environmental Health

9. **Presentation Prep and Common Instrument**
Goal: To ensure completion of the retrospective survey for youth engaged in MedTrek and to support the selection and presentation format of youths’ evidence of learning. To plan the logistics of a celebration.
   - Common Instrument – Science Survey for Youth
   - MedTrek Youth Presentation Preparation
   - Celebration Logistics – Food, Slide Show, Goodie Bags, T-shirts, Medical Artifacts

10. **Celebration**
Goal: To celebrate learning through reflections and presentations by youth and to recognize the mentors and supports that went into the MedTrek learning experience.
   - Youth Presentations to Guests
   - Reflections
   - Celebration!
Connecting students to careers, professions, and communities to improve health.

NEW INNOVATIONS ESTABLISHED

Established with new workforce development and educational programs.

The Vermont Health Care Education Program (VHCEP) is a collaborative effort involving colleges of health sciences and community-based organizations to support the development of a skilled workforce.

Learning Plan:
- Student learning objectives include:
  - Improvement in clinical skills
  - Development of professional skills
  - Understanding of community health care systems
  - Preparation for professional practice

ACTIVITIES

- Increase likelihood of admission to health care professions
- Improve access to high-quality health care services
- Increase understanding of health care needs
- Improve access to high-quality education

OBJECTIVES

- Acquire professional skills
- College of career
- Academically prepared
- Undergraduate degree
- Career in health care

ACTIVITIES

- Develop professional networks
- Develop professional networks
- Increase likelihood of admission
- Increase access to high-quality education

OBJECTIVES

- Increase health care access
- Improve access to high-quality education
- Improve health care access
- Increase likelihood of admission in health care professions

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