

# HEALTH SCIENCE MOBILE LAB

## MAPLE RIVER - Jan 8-12

### DAY 1 - GERIATRICS

ACTIVITY 1	ACTIVITY 2
Aging Suits & Walkers	Visual Impairment (glasses) & Auditory Dementia Simulators
<b>EQUIPMENT: 4 simulation kits and 4 walkers</b>  Have students work in pairs to help each other put on an aging suit and imagine what it feels like to have an aging body.	<b>EQUIPMENT: 2 Glasses Kits; 2 Auditory Simulators</b>  Visual Impairment: Have students try on the glasses and review the types of eye diseases listed on the box and experience them. Auditory Dementia: Have students try to interpret what the recording is saying with the sound disturbances to mimic what it would be like to have an auditory impairment.

#### QUESTIONS TO CONSIDER:

What medical careers interact with an aging population?

Why will these careers be in demand?

How did you feel having experienced mobility and sensory impairment?

LINK: <https://docs.google.com/spreadsheets/d/1jImo9UetpXHSI7W3JwEgrYGxLmWEi66ZWQancwAOU0c/edit#gid=0>

### DAY 2 - VITAL SIGNS

ACTIVITY 1	ACTIVITY 2
Blood pressure cuffs, Vein Lights, and/or Dopplers	Stethoscopes, reflex hammers, pulse oximeters
<b>EQUIPMENT: Blood Pressure Simulation Kits, Vein Lights (2), Doppler (2)</b>  <b>Blood Pressure Simulation Kits:</b> Work in groups to identify how to take a blood pressure (may need support if this is an unfamiliar skill) <b>Vein Lights:</b> These tools help folks who need to get an intravenous needle into a vein. It views different skin types depending on the light cast. <b>Dopplers:</b> Turn on the device and put some of the ultrasound gel onto the transmitter. You can hear your blood flowing (heartbeat sound) in your jugular artery (neck). Turn the sound up to let everyone hear!	<b>EQUIPMENT: Zip bags include 1 stethoscope, 1 reflex hammer, and 1 pulse oximeter</b>  <b>Stethoscopes:</b> Make sure that the ear pieces fit in your ears correctly. They should tip into your ear toward your chin or nose area (not straight in!). Listen to your heartbeat or to someone else's! <b>Reflex Hammer:</b> Pair up and have a partner sit on a table and let their legs dangle. Feel for the kneecap (patella) and a soft spot below it. Use the flat part of the hammer to "bump" the soft spot to notice a reaction! <b>Pulse Oximeter:</b> Make sure batteries are in and the device is turned on. Place your finger into the device to check your pulse and how much oxygen is in your blood!

#### QUESTIONS TO CONSIDER:

What medical careers interact with the collection of vital signs?

Why do we need to know what a person's vital signs are?

What are some other ways to collect vital signs?

LINK:

<https://docs.google.com/spreadsheets/d/1jlmo9UetpXHSI7W3JwEgrYGxLmWEi66ZWQancwAOU0c/edit#gid=1895615167>

## DAY 3 - EMERGENCY MEDICAL

ACTIVITY 1	ACTIVITY 2
Intubation Simulator (would be helpful to have High STEP students or SCC folks!)	Adult Choking Manikin
<b>EQUIPMENT: Intubation Manikin and orange "Tacklebox" (contains intubation camera)</b>  Work with SCC Students/Faculty or Trained High STEP Students to practice intubating a "patient"!	<b>EQUIPMENT: Choking Manikin</b>  Practice the Heimlich Maneuver with the two pieces of simulated food (one is a hot dog piece and the other is a grape).
<b>QUESTIONS TO CONSIDER:</b> What medical careers deal with life threatening issues? What are skills needed in these types of careers?	

<https://docs.google.com/spreadsheets/d/1kcu7RS-6jXntvPSBV7wD7VrE7TV4WILxQgvYCjH9rzK/edit#gid=723318282>

## DAY 4 - MEDICAL / SURGICAL

ACTIVITY 1	ACTIVITY 2
<b>GLOW GERM (Change from using injection pads!)</b>	<b>SURGERY SIMULATOR (CHANGE FROM VENIPUNCTURE)</b>
<b>EQUIPMENT: Glow Germ Gel and Black light</b>  Put a nickel sized amount of simulated germs on your hands and let it dry. Wash your hands with soap/water. After washing, turn out the light and see the spots you may have missed!!	<b>Equipment: Surgery simulator and 2 training stations (Intestines and "playground")</b>  Turn on the equipment and practice what it would be like to perform robotic surgery!
<b>QUESTIONS TO CONSIDER:</b> Why is handwashing so important in medical careers? Why is robotic surgery sometimes preferred to a more invasive surgery?	

LINKS:

<https://docs.google.com/spreadsheets/d/1jlmo9UetpXHSI7W3JwEgrYGxLmWEi66ZWQancwAOU0c/edit#gid=195709783>

## DAY 5 - ENT and PEDIATRICS

ACTIVITY 1	ACTIVITY 2
Pediatric Nursing Manikin, Infant CPR	Eye and Ear Disease Trainer
<b>EQUIPMENT: Nursing Manikin, Infant CPR Manikin</b>  Suggested ideas: Try to take the infants blood	<b>EQUIPMENT: Ear Trainer; Eye Trainer and otoscopes</b>  Suggested ideas: Plug in the trainers and turn them

pressure. Practice CPR on the infant (how is it different than an adult?), view the eyes of the newborn - why do they look unusual?

on. Turn the light on the otoscopes to see into the eyes and ears of the manikins.

**QUESTIONS TO CONSIDER:**

Caring for people takes unique skills. What are skills you think are the most important to have? Working directly with patients is considered "Therapeutic Care". Who else may a healthcare professional have to deal with in their work OTHER than the patient?

**LINKS:**

<https://docs.google.com/spreadsheets/d/1jlmo9UetpXHSI7W3JwEgrYGxLmWEi66ZWQancwAOU0c/edit#gid=44125906>  
<https://docs.google.com/spreadsheets/d/1jlmo9UetpXHSI7W3JwEgrYGxLmWEi66ZWQancwAOU0c/edit#gid=1451499860>

## **OTHER RESOURCES:**

KAHOOT GAME:

<https://create.kahoot.it/share/health-science-mobile-lab-career-trivia/f1bb9943-e219-4ce7-8e86-1965657d0dba>

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MOBILE LAB PRE-SURVEY:

<https://forms.gle/w5nqBxcM3iTSpVfN9>

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MOBILE LAB POST-SURVEY:

<https://forms.gle/7db9BLULDn7mNKg37>

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WEBSITE LINK:

<https://sites.google.com/mnscsc.org/healthsciencemobilelab/home>

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