

WONDERFUL YOU

OBJECTIVE

Students will experience a simulation showing the development of the 5 senses in a fetus. In doing so, students will learn the milestones in fetal development and how the fetus reacts to external environmental stimuli.

MATERIALS

- Oculus Rift
- Oculus controller/Touch
- Activity section or corresponding Google Doc
- Three colors of Post-It notes
- Optional: Poster sheets for each of the 5 senses

SYNOPSIS

Wonderful You is an experience in VR with a small amount of interaction. The user is taken on a journey through the various sensory development stages of a fetus. Each of the 5 senses is explored individually with the help of stimulating graphics and visual effects.

This activity requires communication between the student in the headset and their partner as they gather information. The information can either be entered into a Google Doc or the accompanying paper form.

TIMELINE

This activity is designed to be completed in 4-45 minute sessions.

OPTIONAL ENRICHMENT ACTIVITY

Students will collect detailed data about each sensory development and create a composite timeline. Two possibilities for the timeline:

- Paper version – takes less time - students need paper, rulers, colored pencils, etc.
- Technology-rich timeline – takes more time – students need computer/Chromebook access. Uses Google Sheets. Visit <https://timeline.knightlab.com/> for examples, information and instructions.

Day 1

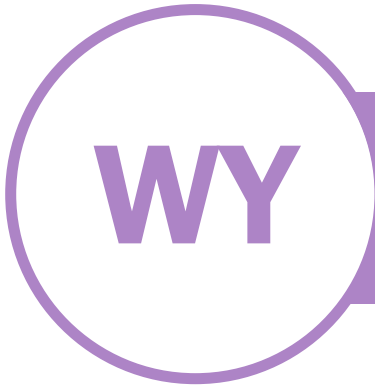
- Classroom teacher performs day 1 activities
- Conduct a topic introduction and discussion with students
- Pair students up in groups of two
- Conduct “How Certain Are You” activity
 - Five stations - one for each sense
 - Can be ideas based on facts or perception or concepts/misconceptions
 - Three color post it notes (green - yellow - red)
 - Use green for “I am sure I am right”
 - Use yellow for “I think I am right”
 - Use red for “I really don’t know but I think this might be true”
- Discuss some of the ideas posted. Don’t share any knowledge with them or actual facts

Days 2-3

- Before class begins, post an assignment on Google Classroom using the “Wonderful You Activity” document (paper version is covered in the “Activity Section” of this document)
- STEM VR team conducts the Wonderful You VR peer-peer activity
- Each student will complete all 5 senses inside the headset, communicating questions and answers to the document questions. One person types answers and responses while the other is in the headset. Alternating after each sense is recommended.

Day 4

- Classroom teacher revisits the “How Certain Are You” activity
 - Allow students to reclassify their ideas
 - Allow them to correct information that was incorrect
 - Allow them to add new post it notes with new information
- Lead a classroom discussion centered on the activity
- Share link for a class survey that will provide feedback to the STEM VR class to help with future lesson design.



TIMELINE

SUGGESTED SEQUENCE

STANDARDS:

The State of Ohio does not regulate standards for Health Classes.