

Human Body with Minecraft: Education Edition

About the Crate

This Cobblestone Crate will help you integrate Minecraft: Education Edition activities to supplement your current Human Body unit. Students will specifically learn about the various Human Body systems, how plant and animal cells are similar and different and how everything is connected together in order to help us survive. Our team of Cobblestone educators will help guide you and your students through each of the activities, providing options for student reflection and sharing, leaving room for you to determine your own assessment techniques. Although this set of activities is designed for Grade 5-8 classes, it can be adapted for other grade levels by modifying the level of difficulty of the tasks.

The 5 Activities included are:

- 1) The Amazing Human Body
- 2) The Human Eye
- 3) The Circulatory System
- 4) The Heart Chamber
- 5) Cells

Guide for Implementation

Plan to begin your Human Body unit the way you always have and then when the timing is right for you, add a dash of this Cobblestone Crate to your lesson plan and learning activities. You may choose to sprinkle the activities throughout your Human Body unit or save them all until the end. That's totally up to you, and the beauty of this crate collection.

It is recommended, however, that the Human Body activities inside this Crate are completed in order as they build upon each other in both skill and understanding, but if you don't have time for all 5, no problem! Perhaps consider using the later activities as extensions, even after your Human Body unit has been completed.

Refer to the following pages for a detailed description of each activity.



Introduction

Video Length: 7 min | Suggested Additional Class Time required: none

Suggested Materials (in addition to M:EE): none

In this video, students will meet the team of co-teachers that will be working with them to explore the Human Body with Minecraft Education. Students will be introduced to the submission form that will allow them to share their learning-thecc.page/humanbody. Students will also learn more about each of the 5 activities that will be covered in this unit.

Activity 1: The Amazing Human Body

Video Length: 14 min | Suggested Additional Class Time required: 30 to 45 minutes

Suggested Materials (in addition to M:EE): Microsoft Word or Pencil and Paper for design thinking and research

<https://education.minecraft.net/en-us/lessons/human-body-organs>

<https://human.biodigital.com/login?returnUrl=/explore>

<https://www.britannica.com/science/human-body>

This lesson may take a little longer as students will have to do some research beforehand and build time may vary depending on students skill levels with Minecraft: Education Edition. In this video, students will start their investigation about the human body and building in Minecraft: Education Edition. Using the Blocks of Grass world and their own research on the Human Body, students will be able to research, design and then build a working system of the human body. In this lesson, students will specifically learn how to construct the human body, what systems are in the human body and how to add this information into their build through NPCs, blackboards and signs. Students are encouraged to use the links above to research the different systems of the human body in order to record information and make their own human body in Minecraft: Education Edition. **Note: This is the beginning of the build and will take the whole unit to complete. After each lesson, students will come back to this build to add to their human body.**

Activity 2: Human Eye

Video Length: 25 min | Suggested Additional Class Time required: 40 to 60 minutes

Suggested Materials (in addition to M:EE): Microsoft Word or Pencil and Paper for design thinking and research

<https://education.minecraft.net/en-us/worlds/the-human-eye>

Understanding various systems in the human body and how they are connected to one another is an important concept to learn. In this video, students will be learning about the human eye, which is part of the nervous system and how it works within the human body. Students will have the opportunity to use Minecraft Education Edition to walk inside of an eyeball and see how it works. Students will investigate each part of the eye and make notes on what they observe and find, using the camera and book and quill. Students will also learn what blocks are helpful for their own design. Once they are done they can add their own Human eye to the human body project file they started in lesson 1.

Activity 3: Circulatory System

Video Length: 23 min | Suggested Additional Class Time required: 40 to 60 minutes

Suggested Materials (in addition to M:EE): Microsoft Word or Pencil and Paper for design thinking

<https://education.minecraft.net/en-us/lessons/circulatory-system>

In this video, students will be learning about the different parts of the circulatory system. When they first enter the world students will see a birds-eye view of the circulatory system and be able to explore the vast network inside of our body. Because the world is quite large and there is a lot of information, it may benefit students if they are working in pairs but they can work on their own. Students will investigate each part of the circulatory system (heart, lungs, and veins) and make notes on what they observe and find. Students will also learn how to use NPCs to teleport people around their projects. Once they are done exploring the world students can add their information to their human body project file, incorporating all that they have been learning about.

Activity 4: The Heart Chamber

Video Length: 16 min | Suggested Additional Class Time required: 40 to 60 minutes

Suggested Materials (in addition to M:EE): Microsoft Word or Pencil and Paper for design thinking and research

<https://education.minecraft.net/en-us/lessons/heart-chambers>

In this video, students will explore the heart by playing a game. In the game, students will travel through the heart answering questions. The heart has two different pathways. Students can start with one pathway and then when finished can go through the next one. In this lesson, they will also explore advanced functions of NPC players (adding videos, teleporting and giving items) to add a better experience in their human body world. Students will also be encouraged to discuss how the heart is connected to the circulatory system and how it relates to the other components of the human body. As well as, adding all they have learned to their own Human Body project file.

Activity 5: Cells

Video Length: 20 min | Suggested Additional Class Time required: 40 to 60 minutes

Suggested Materials (in addition to M:EE): Microsoft Word or Pencil and Paper for math strategies

<https://education.minecraft.net/en-us/lessons/eukaryotic-cells>

In this final lesson, students will explore the microscopic world of cells. Students will explore the cells and try to identify the different organelles. Then build your own cells. Working through this world will motivate the students to know more about the cells by exploring them and studying them. Finally, students will be able to create their own cells using the information they have learned in this world.