

Program Contents

INTRODUCTION

Running Time: 7 minutes

- Wendy's welcome
- Controls/Functionality

EXTERNAL FEATURES

INTERNAL SYSTEMS



TOTAL RUNNING TIME: 25 MINUTES

The Importance Of Dissection

Dissection labs can be both exciting and motivating for students, contributing to a dynamic learning experience. In a deeply immersive and hands-on approach, students are able to answer questions about anatomical structures and processes, to identify patterns across species, and to relate structure to function. In middle and high school lab courses, dissections can be used as evidence for model building and as empirical evidence to support theories.

In this virtual reality frog dissection, students get to explore the anatomy of a female frog inside and out. The frog's respective organs are scientifically accurate models to scale, allowing students to have a full dissection experience at their own pace. We've digitized a licensed science teacher who guides students through the entire experience. Students also use the same dissection tools throughout the lesson--without risk of injury--to add to the lifelike experience of performing the dissection as they move through learning about and examining the frog anatomy for structure and function purposes.

NGSS: Next Gen Science Standards

DISCIPLINARY CORE IDEA

LS1.A: STRUCTURE AND FUNCTION: Multicellular organisms have a hierarchical structural organization, in which any one system is made up of numerous parts and is itself a component of the next level.

LS4.A: EVIDENCE OF COMMON ANCESTRY AND DIVERSITY: Genetic information, like the fossil record, provides evidence of evolution. DNA sequences vary among species, but there are many overlaps; in fact, the ongoing branching that produces multiple lines of descent can be inferred by comparing the DNA sequences of different organisms. Much information is also derivable from the similarities and differences in amino acid sequences and from anatomical and embryological evidence.

PERFORMANCE EXPECTATION

HS-LS1-2: Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.