

INTRODUCING V-FROG

V-FROG IS THE WORLD'S FIRST VIRTUAL REALITY-BASED FROG DISSECTION SIMULATION DESIGNED FOR BIOLOGY EDUCATION THAT PROMISES TO DELIVER A LEARNING EXPERIENCE COMPARABLE TO CONVENTIONAL FROG DISSECTION, WITHOUT THE ASSOCIATED SAFETY RISKS AND MORAL CONCERNS.

WHAT STUDENTS CAN DO

WITH V-FROG A STUDENT CAN CUT, PROBE, AND EXPLORE THE FROG AS WELL AS ACTIVATE VARIOUS BIOLOGICAL SYSTEMS IN ORDER TO SEE HOW THEY FUNCTION IN A LIVE FROG.

INNOVATION

V-FROG HAS MANY ADVANTAGES COMPARED TO MULTIMEDIA-BASED FROG DISSECTION SOFTWARE, THE MOST IMPORTANT OF WHICH ALLOWS FOR TRUE REAL-TIME INTERACTION WITH THE SPECIMEN. V-FROG USES INTRICATE TECHNICAL INNOVATIONS, BASED ON THE LATEST VIRTUAL SURGERY TECHNOLOGY, TO PERFORM SUCH TASKS AS CUTTING, GRASPING, PEELING AND PROBING.

WHO SHOULD USE IT

V-FROG IS DESIGNED FOR USE IN THE BIOLOGY CURRICULUM OF U.S. MIDDLE SCHOOLS AND HIGH SCHOOLS. IT CAN BE USED AS A SUPPLEMENT OR AS AN ALTERNATIVE TO CONVENTIONAL DISSECTION, PROVIDING MORE DETAIL AND REPEATED LEARNING OPPORTUNITIES.



- V-FROG WILL RUN ON STANDARD PCs

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FEATURES

COMPARATIVE ANATOMY

COMPARATIVE ANATOMY IS A UNIQUE FEATURE OF V-FROG. IT ALLOWS FOR SIDE-BY-SIDE VIRTUAL COMPARISONS OF FROG AND HUMAN ANATOMIES.

ACTIVATION

IN V-FROG, AN ACTIVATION IS THE SIMULATION OF AN ACTUAL MOVEMENT OR PROCESS COMPLETED BY THE SPECIMEN AS THOUGH IT WAS ALIVE.

VIRTUAL DISSECTION

VIRTUAL DISSECTION MIMICS ACTUAL FROG DISSECTION. STUDENTS USE VIRTUAL TOOLS SUCH AS A SCALPEL AND TWEEZERS TO CUT AND PEEL AWAY SKIN, AS WELL AS A ENDOSCOPE TOOL TO EXPLORE THE INNER ANATOMY OF THE FROG.

MANIPULATE/ARTICULATE

STUDENTS CAN MANIPULATE THE MOVABLE PARTS OF A FROG SUCH AS THE LIMBS, AND JAW. MANIPULATIONS DEMONSTRATE THE KINEMATICS OF VARIOUS JOINTS AND MOVING PARTS, AND PROVIDE A CLEAR DEMONSTRATION OF THE VARIOUS MUSCLES INVOLVED IN MOVEMENT.