

NEW!

Veterinary Science PAC

Students explore many different areas of veterinary medicine, including anatomy and physiology, basic care, restraint methods, venipuncture simulation, rescue breathing, and CPR. Students perform simulated dissections of both a cat and a pig and compare their anatomy. They also perform venipuncture restraint procedures and various emergency intervention techniques, including abdominal thrusts and rescue breathing.



Key Features:

- Practice muzzling cats and dogs.
- Explore the anatomy of many types of animals.
- Perform virtual dissections.
- Demonstrate venipuncture on a venipuncture trainer.
- Place subcuticular and interrupted single sutures.



Topics Covered:

- Companion vs. agricultural animals
- Anatomy of mammals, birds, and reptiles
- Basic care and preventative medicine
- Safety procedures
- Venipuncture
- Surgery preparation and common surgical procedures
- Asepsis techniques
- Suturing
- First aid
- Companion animal breeds

Academic Concepts and Skills:

- Reading
- Writing
- Math
- Biology
- Physical science
- Problem solving
- Teamwork
- Resource allocation
- Technological literacy



Veterinary Science PAC
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The **Veterinary Science PAC** involves the study of veterinary medicine including anatomy and physiology, basic care, restraint methods, venipuncture simulation, rescue breathing, and CPR. Students will perform simulated dissections of both a cat and a pig and create a comparison of their anatomy. They will perform venipuncture restraint procedures for both a cat and a dog. Various emergency intervention procedures will be performed including abdominal thrusts and rescue breathing.

- Explore major careers associated with veterinary science and the responsibilities, education, and licensure required for each.
- Research laws for the state in which you live pertinent to veterinary technicians.
- Develop a short paper discussing a chosen career field, using information gained during research.
- Discover basic facts about mammals, reptiles, and amphibians.
- Explore the anatomy of horses, cows, cats, and dogs.
- Examine the classifications of common companion and agricultural animals.
- Discover the basic anatomy of birds.
- Explore basic care and preventative medicine for canines and felines.
- Practice accurately interpreting nutritional information.
- Discuss safety procedures.
- Perform muzzling procedures for canines and felines.
- Explore mammalian anatomy.
- Perform a virtual cat dissection.
- Define venipuncture.
- Discover common venipuncture locations.
- Practice proper restraint techniques for canine and feline venipuncture locations.
- Recognize various types of injections.
- Identify proper venipuncture technique.
- Perform venipuncture using the venipuncture trainer.
- Explore common surgical procedures such as spaying and neutering.
- Discover the importance of asepsis.
- Determine the proper method for maintaining aseptic conditions.
- Define suture.
- Explore the various types, uses, and techniques of suturing.
- Practice placing interrupted signal sutures.
- Practice placing subcuticular sutures.
- Discover the importance of basic first aid.
- Explore the importance of proper emergency procedures.
- Practice a finger sweep to dislodge a foreign object.
- Perform rescue breathing.
- Simulate abdominal thrusts to dislodge an airway.
- Locate and measure the femoral pulse on the CPR mannequin.
- Discover the instances in which CPR is required for a veterinary emergency.
- Practice the proper steps to performing canine CPR.
- Explore various animal breeds and species.
- Identify various companion dog breeds.
- Perform a virtual pig dissection and compare the anatomy of the pig with the cat dissected earlier.
- Prepare a paper or presentation comparing pig and cat anatomy.