



## Science Pups (4-5 yr olds)

Fall Semester 2024

Bring your little scientist to the zoo to explore science through games, activities, crafts and up-close animal encounters. You'll participate with your child as we inspire curiosity and create connections to animals and science.

**Cost:** \$79 for semester for 1 child and parent. **1 adult must attend with the student. Older, younger or non-registered siblings may not attend.** If you have an older student, sign up for our weekly homeschool classes.

*Zoo Annual Pass or Circle of Friends membership is required to attend class. Both the student(s) and whoever brings the student(s) to class must either pay admission or have an annual pass. Visit [zooknoxville.org](http://zooknoxville.org) to purchase an annual pass or Circle of Friends membership.*

**Registration:** Online registration for new families starts April 19<sup>th</sup>.

Advance registration is required.

Registration is online at

[zooknoxville.org](http://zooknoxville.org)! *Registration and payment must be received at least two days before students can start attending class. Register by August 11<sup>th</sup> to be able to attend the full semester. Registration is still open after the semester starts and a mid-semester discount is available as long as there is space in the class. Most classes fill before the start of the semester.*



**Schedule:** Register each child for one class per week. Classes occur weekly on Tuesdays and Wednesdays from 9:45-10:45 from Aug 13<sup>th</sup>- Nov 13<sup>th</sup> except the weeks of Oct 1<sup>st</sup> and 8<sup>th</sup> there will not be classes.

# Zoo Knoxville Weekly Homeschool Class Schedule Fall 2024

Aug 13 <sup>th</sup> -14 <sup>th</sup>	<b>Introduction to the Homeschool Academy and Intro to Chemistry</b> Students will learn the different states of matter and be able to describe how they interact.
Aug 20 <sup>th</sup> - 21 <sup>st</sup>	<b>Chemistry: Acids and Bases</b> Students will learn how to identify if a substance is an acid or a base. Students will also learn importance of pH and how to test the pH of different liquids.
Aug 27 <sup>th</sup> -28 <sup>th</sup>	<b>Chemistry: Chemistry in Everyday Life</b> Students will learn how chemistry is used in everyday life and perform experiments using everyday materials.
Sept 3 <sup>rd</sup> -4 <sup>th</sup>	<b>Microbiology: Intro to Microbiology</b> Students will discover evidence that cells have structural similarities and differences across organisms. They will be able to describe the basic parts of plant and animal cells.
Sept 10 <sup>th</sup> - 11 <sup>th</sup>	<b>Microbiology: Cells and Bacteria</b> Students will be able to understand how cells can burst, learn how to identify bacterial colonies, and observe microorganisms using magnifying lenses and microscopes.
Sept 17 <sup>th</sup> -18 <sup>th</sup>	<b>Anatomy: Plants and Animals</b> Students will be able to identify different parts of a plant and animal. Students will learn how their unique anatomy helps plants and animals survive in their environment.
Sept 24 <sup>th</sup> -25 <sup>th</sup>	<b>Anatomy: Predator vs Prey</b> Students will be able to identify the main differences between carnivores and herbivores. Students will learn why these animals are important to an ecosystem and their adaptations.
Oct 1 <sup>st</sup> – 2 <sup>nd</sup>	FALL BREAK: NO CLASSES
Oct 8 <sup>th</sup> -9 <sup>th</sup>	FALL BREAK: NO CLASSES
Oct 15 <sup>th</sup> -16 <sup>th</sup>	<b>Anatomy: All About Tracks</b> In this class students learn the importance of tracking and practice identifying animals by examining the tracks and signs they leave behind.
Oct 22 <sup>nd</sup> -23 <sup>rd</sup>	<b>Anatomy: Tracking Field Trip (Tommy Schumpert)</b>
Oct 29 <sup>th</sup> -30 <sup>th</sup>	<b>Engineering: Biomimicry</b> Students will understand the significance of engineering design in the natural world. Students will also understand and observe the principles of flight.
Nov 5 <sup>th</sup> -6 <sup>th</sup>	<b>Engineering: Problem Solving</b> In this class students will learn the engineering process and apply it to various problem solving activities. Students will also learn about problem solvers in the animal kingdom.
Nov 12 <sup>th</sup> -13 <sup>th</sup>	<b>Engineering: Build It!</b> Students will use the engineering process and critical thinking skills to design and build things.