

# Anatomy: Advanced

Dr. Robin Dickinson MD

✉ hello@docrobinschool.com

☎ (720) 257-9030



## LifePath Anatomy: Advanced Exploration

### Course Description

In this engaging visual course designed for middle and high schoolers, students take a deep dive into human anatomy through expertly guided lessons and vibrant coloring activities. Taught by Dr. Robin, a physician and educator known for making medical science accessible, this course combines scientific accuracy with hands-on learning to build a strong foundation in anatomy. With each lesson, learners explore how body systems work together, helping them connect their curiosity with real-world applications in health, medicine, and biology.

### Learning Goals or Objectives

- **Understand Key Anatomical Systems:** Learners will identify and describe major organs, tissues, and systems in the human body.
- **Develop Visual-Spatial Understanding:** Learners will enhance their ability to visualize anatomical structures through labeled coloring and diagrammatic learning.
- **Build Foundational Medical Vocabulary:** Learners will be introduced to age-appropriate medical terminology and concepts.
- **Practice Integrated Thinking:** Learners will explore how body systems interrelate and contribute to overall health.

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## Course Content

Each lesson includes a brief instructional video, guided coloring activity, and quick review to reinforce key concepts.

### **Lungs in Situ**

- 26:40 minutes of video lesson

### **Alveoli and Bronchi**

- 22:18 minutes of video lesson

### **How We Make Speech**

- 22:39 minutes of video lesson

### **Heart Exterior**

- 20:44 minutes of video lesson

### **The Cardiac Cycle: Systole and Diastole**

- 16:19 minutes of video lesson

### **Heart Interior In Situ**

- 19:34 minutes of video lesson

### **Circulatory System**

- 34:29 minutes of video lesson

### **Kidneys and Bladder**

- 13:03 minutes of video lesson

### **Kidney and Nephron**

- 29:19 minutes of video lesson

### **Inside the Mouth**

- 16:55 minutes of video lesson

### **Digestive System**

- 32:13 minutes of video lesson

### **Small Intestine**

- 18:03 minutes of video lesson

### **Biliary Tree**

- 27:21 minutes of video lesson

### **Lymphatic System**

- 24:54 minutes of video lesson

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### Skin

- 21:44 minutes of video lesson

### Bones and Joints

- 28:51 minutes of video lesson

### Comparative Anatomy: Bones

- 20:43 minutes of video lesson

### Comparative Anatomy: Muscles

- 25:04 minutes of video lesson

### Axial Skeleton

- 15:34 minutes of video lesson

### Spine and Spinal Cord

- 17:16 minutes of video lesson

### Dermatomes

- 17:45 minutes of video lesson

### Nerve Cells

- 18:09 minutes of video lesson

### Autonomic Nervous System

- 23:32 minutes of video lesson

### Brain

- 22:48 minutes of video lesson

### Homunculus

- 13:20 minutes of video lesson

### Eye

- 18:38 minutes of video lesson

### Ear

- 19:01 minutes of video lesson

### Where Senses Go in the Brain

- 16:07 minutes of video lesson

### Systems of the Human Body

- 26:55 minutes of video lesson

### Human Cell

- 24:19 minutes of video lesson

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## Materials and Related Courses

### **Dr. Robin's Anatomy Coloring Book for Serious Young Scientists by Dr. Robin Dickinson MD**

A visual and interactive tool that helps learners engage with anatomy through labeled diagrams and guided coloring. Designed to reinforce spatial understanding and make complex systems more approachable.

- PDF printable provided
- Printed book available on Amazon (*provided for students on the annual plan of MedPath*)

### **10 Conversations to Have with Your Tween or Teen**

This important book provides parents with guidance on crucial topics to discuss with their middle schoolers. Written by family physician, Dr. Robin Dickinson, MD, each article offers background information, preparation tips, conversation dos and don'ts, and journaling prompts for both parent and child. These prompts can be used for journaling, writing assignments, or further discussion.

### **Other Related Courses and Books**

- LifePath Anatomy: Primary Studies
- Self Care and Health
- Family Health Planner
- Parenting for Neurodiverse Families