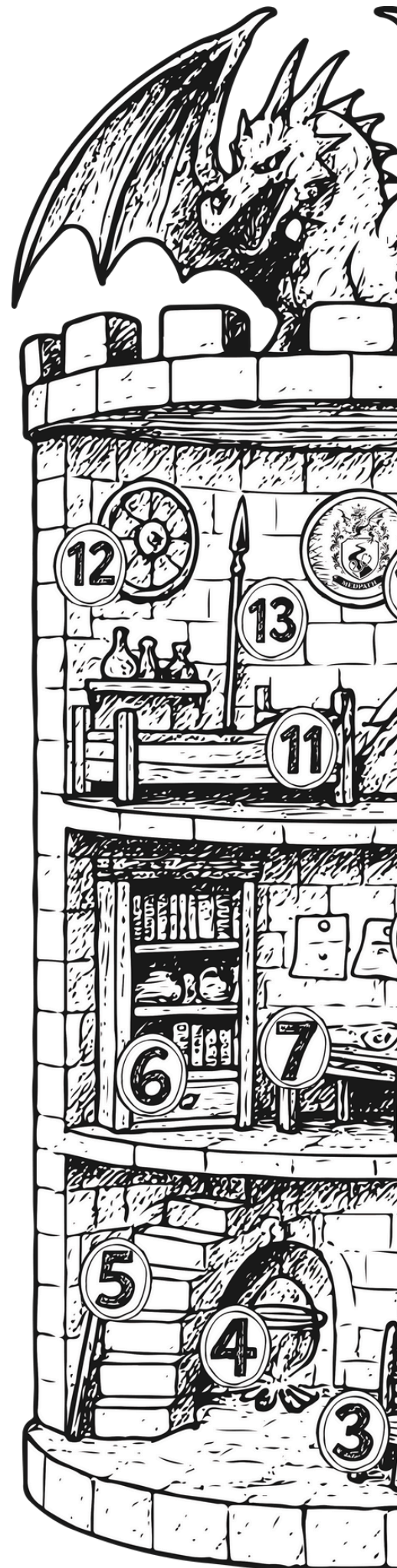


Dr. Robin Dickinson

Level 2 | Guidebook

MedPath

PRINCIPLES OF CLINICAL BIOLOGY





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This Guidebook Belongs to:

(Student Name)

My Guide is:

(Adult Helping Me)

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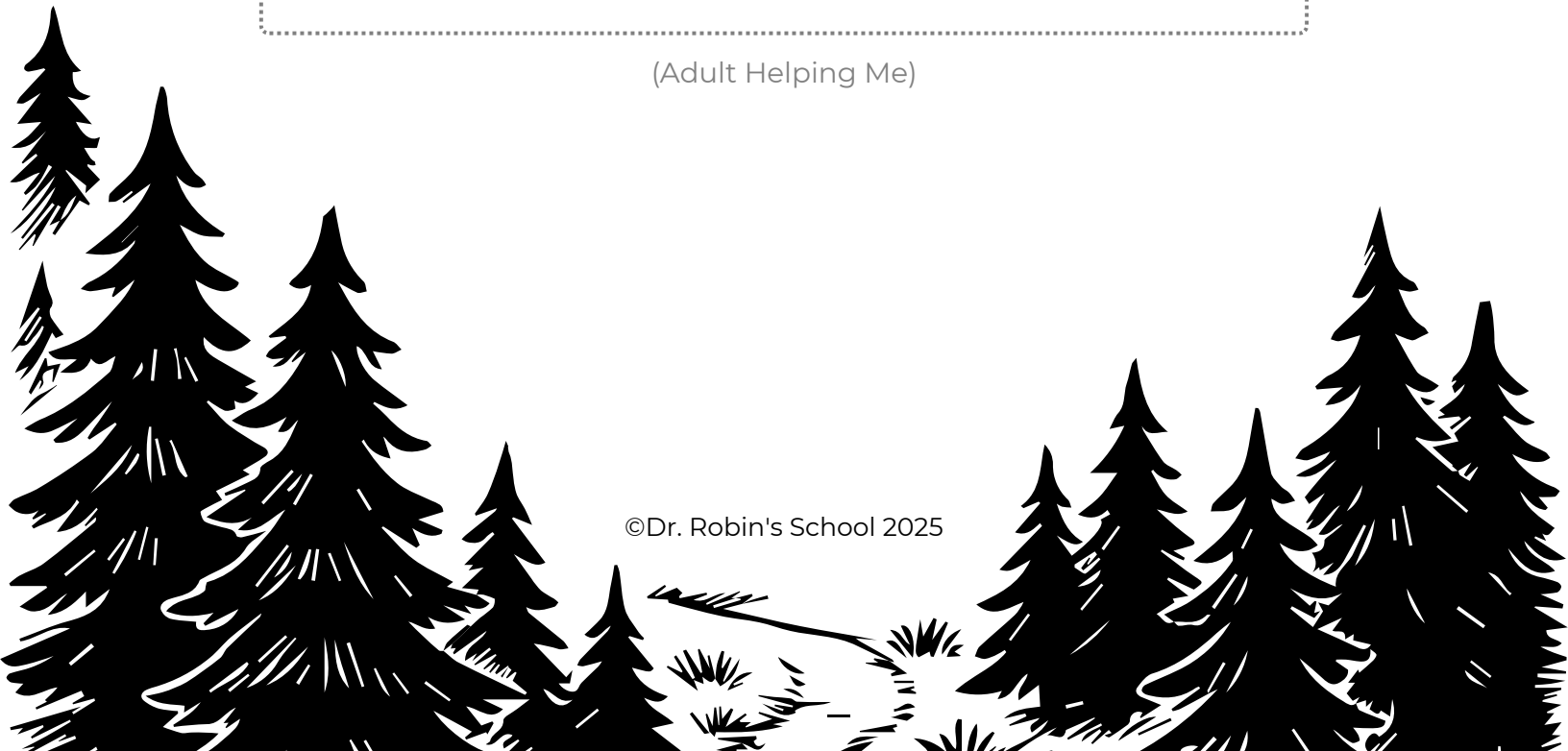
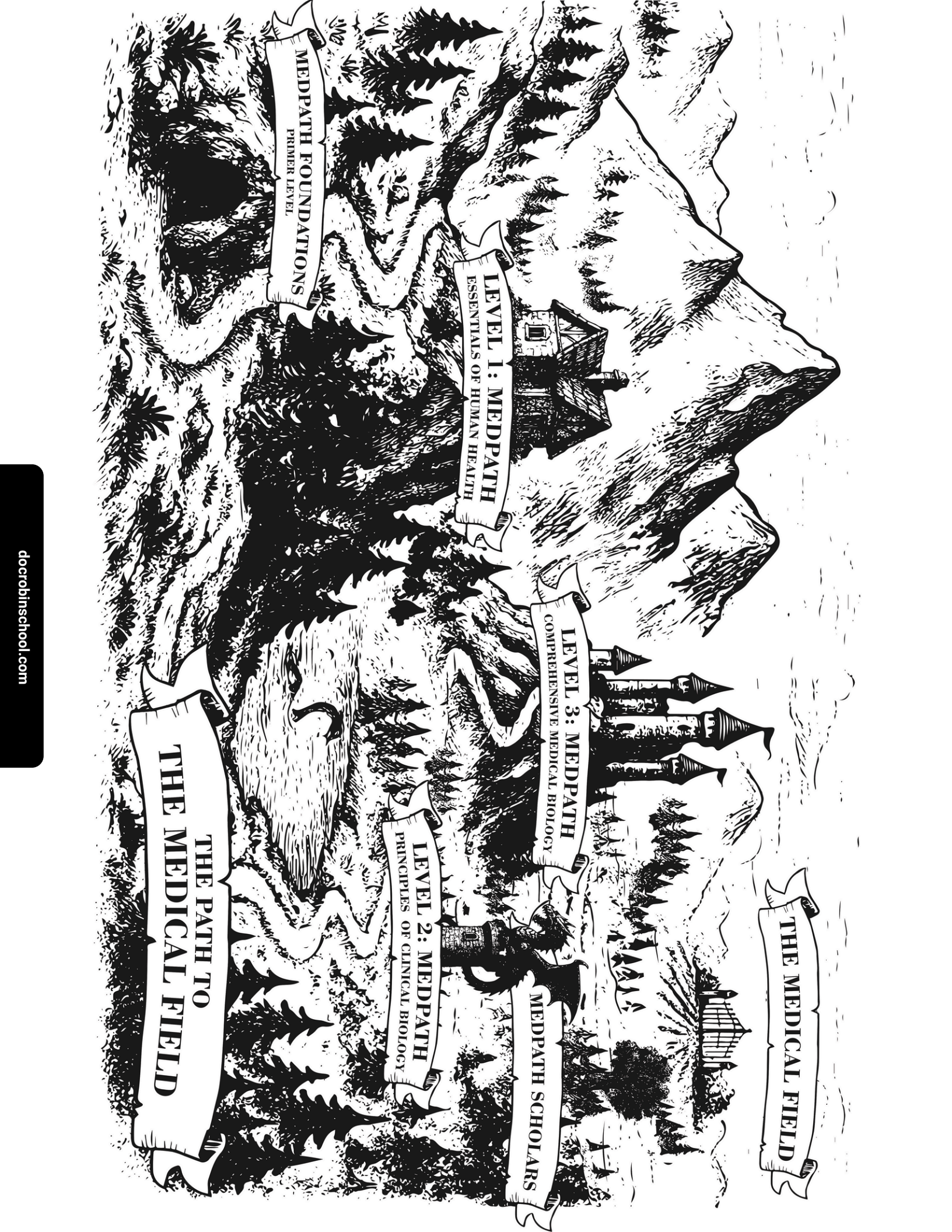


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THE MEDICAL FIELD

MEDPATH SCHOLARS

LEVEL 3: MEDPATH
COMPREHENSIVE MEDICAL BIOLOGY

LEVEL 1: MEDPATH
ESSENTIALS OF HUMAN HEALTH

LEVEL 2: MEDPATH
PRINCIPLES OF CLINICAL BIOLOGY

MEDPATH FOUNDATIONS
PRIMER LEVEL

THE PATH TO
THE MEDICAL FIELD

The Map of MedPath

From Foundations through Level 3

LEVEL 3: MEDPATH COMPREHENSIVE MEDICAL BIOLOGY

Real-world clinical reasoning, medical relevance, and one-on-one feedback to support deeper exploration.

LEVEL 2: MEDPATH PRINCIPLES OF CLINICAL BIOLOGY

A bridge between learning facts and *thinking clinically*, this level introduces case-based learning and builds systems thinking.

LEVEL 1: MEDPATH ESSENTIALS OF HUMAN HEALTH

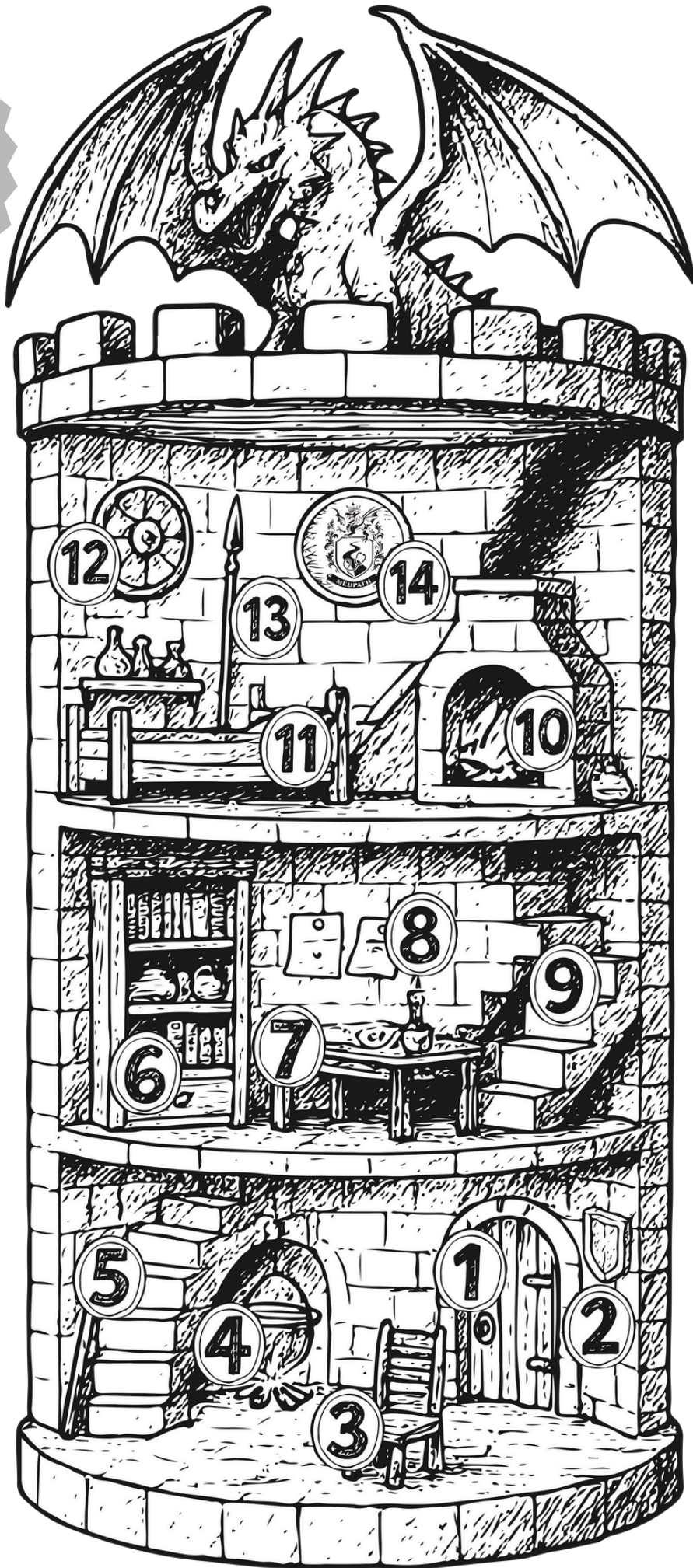
A guided tour through the body's systems, with an emphasis on vocabulary, visuals, and making sense of how it all works.

MEDPATH FOUNDATIONS PRIMER LEVEL

Short, hands-on lessons using the Anatomy Coloring Book—perfect for new or younger learners.



Use
This
Map of
Level 2





Welcome!

Dear Young Healer,

Welcome to Level 2 of MedPath, Principles of Clinical Biology!

I know you're here because you want to truly understand how the human body works and how to care for it. That takes time, effort, and curiosity. I'm proud of you for going on this journey.

The **map** on page 6 shows where you're headed. This **guidebook** is here to help you stay on track. Mark off each lesson as you complete it. When you finish all the lessons in a system, follow your map to the next destination.

At the end of the level, you'll have the option to take a test. If you pass, you'll earn a MedPath token and be ready to move up to the next level. But here's the truth: most students go through each level **more than once** before testing out. That's not just okay—it's normal. Even advanced students often return to these lessons to deepen their understanding.

If you want to test out after one round, make sure you've done all the challenge questions, reviewed past lessons, and asked for help when something didn't make sense.

I'm so proud of you!

Dr. Robin

What is your goal?

Do you want to learn how the body works? Do you want to learn how to help people? Do you want to be a nurse, or a vet, or a surgeon? What is your goal?

What do you want to gain from this journey through this level of MedPath?



Remember to mark off each lesson as you complete it!

1. Welcome

Welcome to Dr. Robin's School

- Welcome from Dr. Robin
- MedPath Anatomy and Physiology
- MedPath Lab: The Human Body in Action
- MedPath Insights: Dr. Robin's Commentary
- MedPath Careers: Different Degree Paths
- MedPath Cases
- MedPath Video Library
- Book Clubs
- Begin Your Journey

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2. Respiratory System

Anatomy: Respiratory System

- Lungs in Situ
- Bronchi and Alveoli
- How We Make Speech

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Physiology: Respiratory System

- Lesson: Fundamentals of the Lungs
- Lesson: DIY Lungs Model
- Lesson: Asthma
- Lesson: COPD

Clinical Application: Respiratory System

- MedPath Insights: Saving Lives with ECMO: The Lung Rescue Program at Penn Medicine
- MedPath Careers: Pulmonology

3. Cardiovascular System

Anatomy: Cardiovascular System

- Heart Exterior
- Cardiac Cycle
- Heart Interior
- Circulatory System

Physiology: Cardiovascular System

- Lesson: DIY Heart Pump Modeling
- Lesson: Fundamentals of the Heart
- Lesson: Blood and Blood Components
- Lesson: Heart in Situ Modeling
- Lesson: Heart Attacks, Heart Murmurs, & Heart Failure
- Lesson: Taking Good Care of Your Heart
- Lesson: Stethoscopes

Clinical Application: Cardiovascular System

- MedPath Insights: Day in the Life of a Cardiologist
- MedPath Careers: Cardiology
- MedPath Careers: Cardiovascular Surgeon

4. Urinary System

Anatomy: Urinary System

- Kidneys and Bladder
- Kidney and Nephron

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Clinical Application: Urinary System

- MedPath Insights: Dialysis is a Lifesaver
- MedPath Careers: Nephrology
- MedPath Careers: Urology

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5. Gastrointestinal System

Anatomy: Gastrointestinal System

- Inside the Mouth
- Digestive System
- Small Intestine
- Biliary Tree

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Physiology: Gastrointestinal System

- Lesson: Fundamentals of the Gastrointestinal System
- Lesson: Inside the Mouth
- Lesson: Teeth
- Lesson: Dental Chart Mini Activity
- Lesson: Dental Care
- Lesson: The Stomach and What Goes Wrong
- Lesson: The Small Intestine
- Lesson: The Liver and Hepatitis
- Lesson: The Large Intestine
- Lesson: Modeling the GI System

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Clinical Application: Gastrointestinal System

- MedPath Insights: Endoscopy
- MedPath Careers: Gastroenterology
- MedPath Careers: General Surgery
- MedPath Careers: Surgical Assistant
- MedPath Careers: Dentist

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6. Immune System

Anatomy: Lymphatic

- Lymphatic System

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Physiology: Immune System

- Lesson: Bugs and Drugs
- Lesson: Fundamentals of the Immune System
- Lesson: Ear Infections
- Lesson: Vaccines
- Lesson: Allergies and Anaphylaxis

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Clinical Application: Lymphatic/Immune

- MedPath Insights: Meet and Immunologist
- MedPath Careers: Immunology
- MedPath Careers: Infectious Disease
- MedPath Careers: Rheumatology

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7. Endocrine System

Physiology: Endocrine System

- Lesson: Fundamentals of Hormones
- Lesson: Candy and Blood Sugar
- Lesson: Fundamentals of Diabetes
- Lesson: How We Grow

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Clinical Application: Endocrine System

- MedPath Insights: Growth Hormone Deficiency

- MedPath Careers: Endocrinology

8. Integumentary

Anatomy: Integumentary

- Skin

Physiology: Integumentary System

- Lesson: Cuts and Bruises
- Lesson: UV Damage

Clinical Application: Integumentary System

- MedPath Insights: Full Body Skin Exam
- MedPath Careers: Pathology
- MedPath Careers: Dermatology

9. Musculoskeletal System

Anatomy: Musculoskeletal System

- Bones and Joints
- Comparative Anatomy of the Limbs: Bones
- Comparative Anatomy of the Limbs: Muscles
- Axial Skeleton

Physiology: Musculoskeletal System

- Lesson: Fundamentals of Bones
- Lesson: Fundamentals of Joints
- Lesson: The Skull
- Lesson: Cleft Lip and Limb Differences

Clinical Correlation: Musculoskeletal System

- MedPath Insights: Getting a Cast
- MedPath Insights: Having Your Cast Removed
- MedPath Careers: Physical Therapy
- MedPath Careers: Physiatry
- MedPath Careers: Orthopedic Surgery

10. Nervous System

Anatomy: Nervous System

- Autonomic Nervous System
- Spine and Spinal Cord
- Dermatomes
- Nerve Cells
- Brain
- Homunculus
- Eye
- Ear
- Where Senses Go in the Brain

Physiology: Nervous System

- Lesson: The Brain
- Lesson: The Spine and Spinal Cord
- Lesson: Sleep
- Lesson: Using the Frontal Lobe
- Lesson: Amygdala

Physiology: Neurology of the Eight Senses

- Lesson: Fundamentals of the 8 Senses
- Lesson: Proprioception
- Lesson: The Tongue and Nose
- Lesson: Interoception
- Lesson: The Ear and Hearing

- Lesson: Hearing and Vibrations
- Lesson: Vestibular System

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Clinical Application: Nervous System

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- MedPath Insights: A Stroke Patient Journey
- MedPath Careers: Neurology
- MedPath Careers: Anesthesiology
- MedPath Careers: Ophthalmology

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11. Nutrition

Nutrition

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- Lesson: Water
- Lesson: Fiber
- Lesson: Protein
- Lesson: Carbohydrates
- Lesson: Fat

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Clinical Application: Nutrition

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- MedPath Insights: A Day in the Life of a Clinical Dietician
- MedPath Careers: Registered Dietician

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12. Healthy Choices

Healthy Choices

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- Lesson: Safety
- Lesson: Habits

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Clinical Application: Healthy Choices

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- MedPath Insights: Naomi's Story–Nurse at Level 1 Trauma Center
- MedPath Careers: Registered Nurse

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13. Genetics

Genetics

- Lesson: Fundamentals of Genetics and the Human Genome
- Lesson: The Genetics of Earwax
- Lesson: Blood Type

Clinical Application: Genetics

- MedPath Insights: Day in the Life–Genetic Counseling
- MedPath Careers: Geneticist

14. Wrapping Up

Anatomy: Wrapping Up

- Systems of the Human Body
- The Human Cell

Clinical Application: Wrapping Up

- MedPath Insights: Lab Tour
- MedPath Careers: Otolaryngology

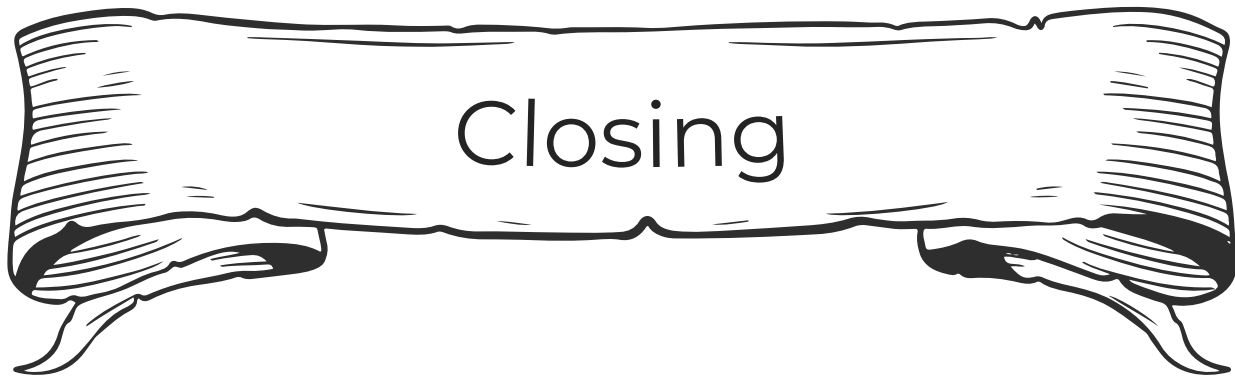
14. The Last Step

- Lesson: You Did it!
- Ask an Adult to Schedule Your Exam:
 - If this is NOT your final time through the course, schedule your Level 2 Exam with the office.
 - If this is your final time through the course, schedule your Level 2 Final Evaluation to earn your MedPath Token.

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- Take your exam or your final evaluation with a medical professional from MedPath
- Determine if you should repeat this course or move on to MedPath Level 3
- Begin your next journey (either begin your next trip through this level or sign up for the next level)
- You have now concluded this section AND this level of the journey- Mark off your Map!

-Congratulations on a job well done!-



Having completed this course, you are ready to test your knowledge and continue on your MedPath.

If this is not your final trip through this level and you have NOT completed every assignment, then schedule your Level 2 exam. You can begin your next trip through this level and prepare for The Level 2 Final Evaluation.

If this is your final trip through this level and you have completed all the assignments, you are now ready to take The Level 2 Evaluation.

When you pass The Level 2 Evaluation, you will receive:
Your MedPath Level 2 Token



Contact us at hello@docrobinschool.com and let us know if you are ready to take the first or final test for this level.



If you have tested out of this level, you are ready to move on
to Level 3!

MedPath | Level 3
Comprehensive Medical Biology

Real-world clinical reasoning, medical relevance, and
one-on-one feedback to support deeper exploration.





MEDICAL FIELD



Guidance for Parents.
Futures for Kids.

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