

# ACAP 4th Grade Science Practice Test (Sample)

## Study Guide



**Everything you need from our exam experts!**

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# Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

**Remember:** successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

# How to Use This Guide

**This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:**

## **1. Start with a Diagnostic Review**

**Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.**

## **2. Study in Short, Focused Sessions**

**Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.**

## **3. Learn from the Explanations**

**After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.**

## **4. Track Your Progress**

**Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.**

## **5. Simulate the Real Exam**

**Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.**

## **6. Repeat and Review**

**Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.**

**There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!**

## Questions

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- 1. Which term describes forces that build up mountains and landmasses on Earth's surface?**
  - A. Constructive Forces**
  - B. Destructive Forces**
  - C. Weathering**
  - D. Erosion**
  
- 2. Which system enables movement, maintains posture, aids in breathing, and facilitates blood and food circulation?**
  - A. Muscular System**
  - B. Skeletal System**
  - C. Nervous System**
  - D. Circulatory System**
  
- 3. Which plant part carries out photosynthesis?**
  - A. Leaves Function**
  - B. Roots Function**
  - C. Stem Function**
  - D. Adaptations**
  
- 4. Which plant part is primarily responsible for absorbing nutrients from the soil?**
  - A. Roots Function**
  - B. Leaves Function**
  - C. Stem Function**
  - D. Adaptations**
  
- 5. What term describes a path for an electrical current to flow around?**
  - A. Circuit**
  - B. Open Circuit**
  - C. Closed Circuit**
  - D. Reflect**

- 6. Stored energy because of position?**
- A. Kinetic Energy**
  - B. Potential Energy**
  - C. Sound Energy**
  - D. Light Energy**
- 7. The ability to do work is called:**
- A. Energy**
  - B. Force**
  - C. Power**
  - D. Mass**
- 8. Which process describes water that flows over the land after rainfall and can feed rivers?**
- A. Run-off**
  - B. Condensation**
  - C. Evaporation**
  - D. Precipitation**
- 9. Which term means changing energy from one form into another form?**
- A. Transform Energy**
  - B. Transfer Energy**
  - C. Convert Energy**
  - D. Store Energy**
- 10. The movement of energy through water, sound or light is called what?**
- A. Wave**
  - B. Sound**
  - C. Light**
  - D. Particle**

## Answers

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1. A
2. A
3. A
4. A
5. A
6. B
7. A
8. A
9. A
10. A

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## **Explanations**

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**1. Which term describes forces that build up mountains and landmasses on Earth's surface?**

- A. Constructive Forces**
- B. Destructive Forces**
- C. Weathering**
- D. Erosion**

Forces that shape Earth by adding material and lifting land upward are constructive forces. These build up mountains and landmasses when tectonic plates collide and push rock upward, or when magma pushes through the crust to form new land. In contrast, weathering breaks rocks apart in place, and erosion carries those pieces away, wearing the surface down rather than building it up. So the term that describes the forces creating new landforms like mountains is constructive forces.

**2. Which system enables movement, maintains posture, aids in breathing, and facilitates blood and food circulation?**

- A. Muscular System**
- B. Skeletal System**
- C. Nervous System**
- D. Circulatory System**

Movement comes from muscles contracting and pulling on bones, which also lets us maintain posture. Breathing relies on muscles like the diaphragm and rib muscles to expand and contract the chest. Muscles also help move substances through the body—heart muscle pumps blood, and smooth muscles push food through the digestive tract. Because these actions are all driven by the muscles, the muscular system best fits all four functions.

**3. Which plant part carries out photosynthesis?**

- A. Leaves Function**
- B. Roots Function**
- C. Stem Function**
- D. Adaptations**

Photosynthesis happens best in the leaves because they are built to capture light and host the cell machinery that makes food. Leaves are broad, giving them a large surface area to absorb sunlight. Inside, chloroplasts with chlorophyll grab light energy and drive the chemical reactions that turn water and carbon dioxide into glucose and oxygen. The mesophyll layer is rich with these chloroplasts, and the stomata allow carbon dioxide to enter while water vapor exits, enabling gas exchange. The xylem brings in water from the roots, and the phloem carries the produced sugars to other parts of the plant. Roots don't typically photosynthesize because they're underground and lack light and chloroplasts, and while stems can perform some photosynthesis, leaves are the main site. So, the plant part that carries out photosynthesis is the leaf.

**4. Which plant part is primarily responsible for absorbing nutrients from the soil?**

**A. Roots Function**

**B. Leaves Function**

**C. Stem Function**

**D. Adaptations**

The part of the plant that primarily absorbs nutrients from the soil is the root. Root hairs on the roots increase surface area, letting water and minerals from the soil enter the plant. These nutrients then travel through the plant's xylem to reach all its parts. Leaves and stems have other jobs—leaves capture sunlight for photosynthesis, and stems support the plant and transport water and nutrients—so they aren't the main absorbent. Adaptations describe features that help plants survive, not a specific part that takes in nutrients from the soil.

**5. What term describes a path for an electrical current to flow around?**

**A. Circuit**

**B. Open Circuit**

**C. Closed Circuit**

**D. Reflect**

A complete path for electricity to travel around is a circuit. The idea is that current needs a closed loop to move from a power source through wires and devices and back to the source. When the loop is continuous and unbroken, current can flow—that's a closed circuit. If there's a gap or the switch is off, the loop is broken and electricity can't flow, which is an open circuit. The term Reflect doesn't describe a pathway for current. So the best description for a path that allows current to flow around is a circuit.

**6. Stored energy because of position?**

**A. Kinetic Energy**

**B. Potential Energy**

**C. Sound Energy**

**D. Light Energy**

Stored energy due to where something is or how it's arranged is called potential energy. It means the energy is tucked away and ready to do work if the situation changes. For example, lifting a book higher up stores gravitational potential energy—the higher it is, the more energy it has to release if it's dropped. A stretched rubber band also has energy stored because of its stretched state; when you release it, that energy can turn into motion. This is different from kinetic energy, which is the energy something has while it's moving; sound energy comes from vibrating objects creating sound waves, and light energy is the energy carried by light waves. So the term for stored energy due to position is potential energy.

**7. The ability to do work is called:**

- A. Energy**
- B. Force**
- C. Power**
- D. Mass**

Energy is the ability to do work because it's the capacity to cause a change, like moving something or lifting it. Work happens when a force moves an object across a distance, so having energy means you can perform that kind of change. Energy comes in many forms, such as kinetic energy in moving objects and potential energy stored from position. For example, lifting a book stores energy as gravitational potential energy, and pushing a cart converts energy from your muscles into the cart's motion. Power, by contrast, is how fast you do that work. Force is the push or pull that can cause motion, and mass is the amount of matter in something, which affects how hard it is to move but isn't the definition of energy itself.

**8. Which process describes water that flows over the land after rainfall and can feed rivers?**

- A. Run-off**
- B. Condensation**
- C. Evaporation**
- D. Precipitation**

Runoff is water that flows over the land after rainfall and can feed rivers. After rain, some water soaks into the soil, but the excess that can't infiltrate will move across the surface, running downhill and into streams. This surface flow is what carries rainwater from fields and streets into rivers, helping sustain them. It's influenced by how steep the land is, what the surface is like (soil, vegetation, or pavement), and how saturated the ground is. By contrast, evaporation is water turning into vapor and rising, condensation is vapor turning into liquid in clouds, and precipitation is rain or snow falling from the sky.

**9. Which term means changing energy from one form into another form?**

- A. Transform Energy**
- B. Transfer Energy**
- C. Convert Energy**
- D. Store Energy**

When energy changes from one form to another, that is energy transforming. This idea is all about a change in the kind of energy, not where it is or whether it is stored. For example, a light bulb takes electrical energy and transforms it into light and heat; a plant transforms light energy into chemical energy during photosynthesis; a flashlight transforms chemical energy into light and some heat. The key is the change of form, which is why transforming energy best fits the description. Transfer energy would mean moving energy from one object to another without necessarily changing its form. Store energy is about keeping energy in a reserve for later use. Converting energy is similar in meaning, but many science contexts use transforming energy to emphasize the change in form, which is why it's the best fit here.

**10. The movement of energy through water, sound or light is called what?**

**A. Wave**

**B. Sound**

**C. Light**

**D. Particle**

Energy moves through water, sound, or light in a wave. A wave is a repeating disturbance that carries energy from one place to another, and it can travel through a medium like water or through space, as with light. In water, waves carry energy to shore; in air, sound moves by vibrating air particles; in space, light carries energy without needing a medium. This idea—energy moving as a wave—fits all three examples, so the best term is wave. Sound and light are examples of waves, and a particle isn't the right description for this way energy moves.

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## Next Steps

**Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.**

**As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.**

**If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at [hello@examzify.com](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

**<https://acap4thgradescience.examzify.com>**

**We wish you the very best on your exam journey. You've got this!**

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