

# SCIENCE EXPLORER GRADE 7 D READING AND STUDY WORKBOOK ANSWERS KEY

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### Science Explorer Grade 7 D Reading and Study Workbook Answers Key

#### Reading Check: Chapter 1

1. What are the three main types of technology?
  - Answer: Chemical, mechanical, and electronic
2. How does technology help us to advance?
  - Answer: By solving problems and improving our lives
3. What are the advantages of using machines?
  - Answer: They can perform tasks more quickly and efficiently than humans

#### Study Guide: Chapter 2

1. What are the four types of energy resources?

- Answer: Renewable, nonrenewable, potential, and kinetic

2. How is energy transferred?

- Answer: Through heat, work, and electricity

3. What are the advantages and disadvantages of using solar energy?

- Advantages: Clean, renewable, abundant
- Disadvantages: Intermittent, can be expensive to collect

### **Reading Check: Chapter 3**

1. What is the difference between a physical change and a chemical change?

- Answer: A physical change does not change the chemical composition of a substance, while a chemical change does

2. What are the four types of chemical reactions?

- Answer: Synthesis, decomposition, single displacement, and double displacement

3. How can you identify a chemical reaction?

- Answer: By observing changes in temperature, color, gas production, or precipitate formation

### **Study Guide: Chapter 4**

1. What are the main characteristics of living organisms?

- Answer: Cells, growth, reproduction, response to stimuli, and adaptation

2. What is the difference between a prokaryotic cell and a eukaryotic cell?

- Answer: Prokaryotic cells lack a nucleus and other membrane-bound organelles

3. What are the functions of the different organelles within a cell?

- Answer: Nucleus controls cell activities, mitochondria produce energy, Golgi apparatus modifies and packages proteins

### **Reading Check: Chapter 5**

1. What is the difference between a population and a community?

- Answer: A population consists of all individuals of a single species, while a community consists of all interacting populations in an area

2. How do organisms interact with each other within an ecosystem?

- Answer: Through food chains, competition, predation, and symbiosis

3. What are the threats to biodiversity?

- Answer: Habitat loss, pollution, climate change, and invasive species

### **Signature in the Cell: Exploring the Unique Fingerprint of Life**

#### **What is the "Signature in the Cell"?**

The "signature in the cell" refers to the distinctive patterns of DNA (deoxyribonucleic acid) that are unique to each living cell. DNA is the genetic material that carries

instructions for the development, functioning, and reproduction of an organism.

### **How is the Signature Created?**

During DNA replication, the nucleotides (A, T, C, and G) that make up the DNA molecule are assembled in a specific order. This order, known as the DNA sequence, is determined by the genetic code of the organism. The DNA sequence contains the instructions for building proteins and other molecules essential for life.

### **Why is the Signature Unique?**

The DNA sequence of each cell is slightly different from that of every other cell. This is because DNA mutations, which are changes in the DNA sequence, occur regularly. These mutations can alter the sequence of nucleotides, leading to the development of unique genetic signatures.

### **Is the Signature Changeable?**

The DNA sequence can change over time due to mutations. However, these changes are typically minor and do not significantly alter the overall genetic signature of the cell. Under normal conditions, the DNA sequence remains relatively stable and provides a permanent record of an organism's genetic identity.

### **Applications of the "Signature in the Cell"**

The unique genetic signature of cells has numerous applications, including:

- **Forensic analysis:** DNA profiling allows law enforcement to identify suspects based on DNA evidence left at crime scenes.
- **Medical diagnostics:** Genetic testing can diagnose genetic disorders, determine disease risk, and guide personalized treatments.
- **Genealogy:** DNA testing can trace ancestry and establish family relationships.
- **Biotechnology:** Genetic engineering uses genetic signatures to modify organisms for desired traits or to create new drugs and therapies.

### **Werewolf: The Apocalypse Core Rulebook: A Comprehensive Guide**

**Q: What is Werewolf: The Apocalypse?** A: Werewolf: The Apocalypse is a tabletop role-playing game set in a world where werewolves, vampires, and other supernatural beings exist. Players take on the roles of Garou, shape-shifting werewolves who fight to protect the world from the forces of darkness.

**Q: What's included in the Core Rulebook?** A: The Werewolf: The Apocalypse Core Rulebook contains everything you need to play the game, including:

- Character creation rules and background information on Garou
- Details on the werewolf tribes, their beliefs, and their history
- Descriptions of the supernatural powers and abilities of Garou
- An overview of the World of Darkness setting and the threats that face it

**Q: What's the goal of the game?** A: The goal of Werewolf: The Apocalypse is to tell stories about the struggle between the Garou and the forces of darkness. Players work together to create characters and adventures that explore themes of honor, duty, and the nature of good and evil.

**Q: Is Werewolf: The Apocalypse a difficult game to learn?** A: Werewolf: The Apocalypse can be a bit complex for new players, but the Core Rulebook provides a wealth of information to help you get started. The game is also supported by a large community of fans who are happy to provide help and advice.

**Q: Where can I find the Werewolf: The Apocalypse Core Rulebook?** A: The Werewolf: The Apocalypse Core Rulebook is available for purchase from Onyx Path Publishing and other online retailers.

## **The Gods Are Not to Blame: A Summary**

### **Introduction**

"The Gods Are Not to Blame" is a short story by Ayi Kwei Armah, a Ghanaian writer. The story explores the themes of responsibility, tradition, and the role of the individual in society.

### **Question 1: What is the main conflict in the story?**

**Answer:** The main conflict in the story arises when a young man named Abandoned accuses the gods of being responsible for his misfortunes. He believes that his poverty and social isolation are due to the wrath of the gods.

**Question 2: How do the elders respond to Abandoned's accusation?**

**Answer:** The elders dismiss Abandoned's accusations, arguing that the gods are not to blame for his problems. They point out that he has not lived up to his responsibilities as a member of the community and that his own actions have contributed to his suffering.

**Question 3: What do the elders believe is the true source of Abandoned's problems?**

**Answer:** The elders believe that Abandoned's problems stem from his lack of self-reliance and his unwillingness to take responsibility for his actions. They argue that he has been too quick to blame others for his misfortunes and has not made an effort to improve his own situation.

**Question 4: What is the significance of the title "The Gods Are Not to Blame"?**

**Answer:** The title of the story suggests that individuals are ultimately responsible for their own actions and that they cannot blame external forces, such as the gods, for their misfortunes. The story encourages individuals to take responsibility for their lives and to make an effort to improve their own circumstances.

## **Conclusion**

"The Gods Are Not to Blame" is a powerful story that explores the importance of personal responsibility and the role of the individual in society. The story challenges the traditional belief that fate or external forces are responsible for our misfortunes and encourages us to take control of our own lives.

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