

Oxford

big ideas

Your Complete Science Solution

1

2

3

BUILDING
ENGAGING
CONNECTING
SCAFFOLDING
TRANSFERRING
UNDERSTANDING
HUMAN ENDEAVOUR



Oxford Big Ideas Science:

An innovative suite of teaching and learning resources written specifically to foster deep, transferable and meaningful understandings. Content is designed to promote depth of learning with key concepts revisited with increasing levels of sophistication so that students develop a richer understanding of the big ideas in science.

- questions, activities and experiments for all learning styles and abilities
- focus on skill development



Oxford Big Ideas Science 1
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Year 7

Part I: Science Skills

1. Curiosity, wonder and questioning: How do we explore science?

Part II: Matter

2. Water matters: How does matter behave?
3. The crime scene: How do we work with matter?

Part III: Systems

4. Life on Earth: How is life on Earth organised?

5. All about me: What kind of living system am I?

6. Essential plants: Where do plants fit into our living system?

7. Earth in space: Why is Earth called the 'living planet'?

Part IV: Energy

8. Sound energy: What is sound energy?

9. Forces: What is a force?



Oxford Big Ideas Science 2
9780195563115 \$54.95
Year 8

Part I: Matter

1. The air we breathe: What is air?
2. Chemical reactions: What is a chemical reaction?
3. My matter: What are the particles of life?

Part II: Systems

4. Keeping your body alive: What keeps us alive?
5. Living in harmony: What is sustainability?

6. The changing Earth: How do rocks form and change?

7. The Universe: What is the Universe?

Part III: Energy

8. At home with energy: How do we use energy in the 21st century?

9. Amazing machines: How do machines transfer or change energy?

10. Engineering: How does energy transform materials?



Oxford Big Ideas Science 3
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Years 9–10

Part I: Matter

1. Consumer science: How do scientists test manufacturers' claims?
2. It's all elemental: What are the elements of matter?
3. A property matter: What are the properties of matter?
4. Chemical reactions: What happens when atoms are rearranged?
5. Molecules of life: What are the molecules of life?

Part II: Systems

6. Genetics: How significant is your genetic make-up in determining who you are?
7. Evolution and natural selection: Why is there such a variety of living things on Earth?
8. Coordination and regulation: What are the internal communication systems of living things?

9. Medical science: How will science keep me healthy?

10. Psychology: Why do humans think, feel and behave the way we do?

Part III: Energy

11. Energy in ecosystems: How is energy made available to living organisms?

12. Electromagnetism and electronics: How do electronic gadgets work?

13. Light energy: What is light energy?

14. Force, mass and movement: How and why do things move?

15. Origin and evolution of the Universe: Where do we come from?

Part IV: Our future

16. Sustainability: How can we make a difference?

17. Emerging technologies: How will emerging technologies impact on our future?

Teacher Resources

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- teaching programs
- tests
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