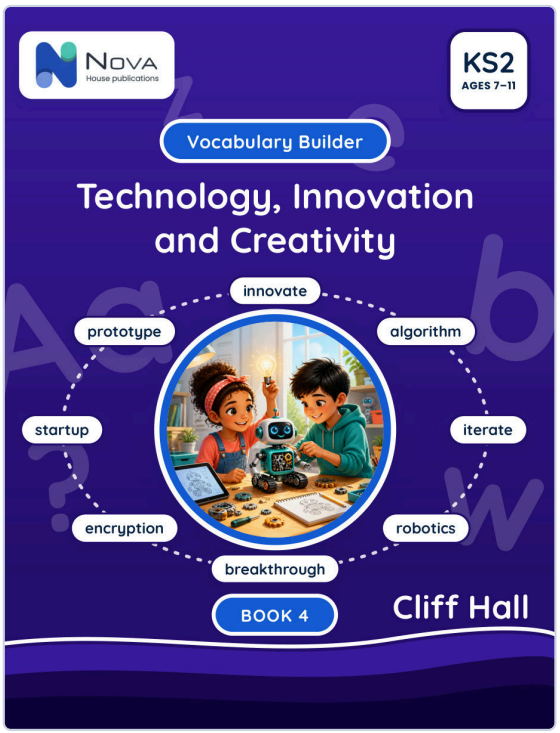
FREE SAMPLE PAGES

Vocabulary Builder

Book 4: Technology, Innovation and Creativity

Section 1: Innovation and Creativity



Inside this sample

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1 Print
Print on A4 at home. Every page fits the sheet, so choose "Fit to page" if your printer asks.

2 Have a go
Let your child work through the activities at their own pace. Allow 30 to 40 minutes.

3 Check together
Use the answers on page 7 and talk through any new words.

About the book

The language of inventors, digital life and big ideas. Six sections take children from innovation and creativity to artificial intelligence and emerging technologies. For ages 7 to 11 (KS2) and beyond.

Find out more about the full book at novaeducation.uk

Section 1

Innovation and Creativity


Innovate
Discovery
Breakthrough
Disruptive
Innovate
Innovate
Innovate
Discovery
Breakthrough
Discovery
Disruptive
Disruptive
Breakthrough
Innovate
Innovate
Discovery
Breakthrough
Disruptive
Innovate
Innovate
Discovery
Breakthrough
Disruptive
Innovate
Innovate
Discovery
Breakthrough
Disruptive

How well do you know vocabulary related to modern technology? In this section, we are going to explore different words we use when we talk about science, technology and innovation. Let's start with the word 'innovation'.

Innovation (noun)

Definition:
The process of creating new ideas, products or methods, or improving existing ones to bring progress, efficiency or positive change.

Say it like:
in-no-VAY-shun (in·no·va·tion)

Synonyms and related terms:

1. creativity: using imagination to develop original ideas
2. invention: creating something entirely new
3. advancement: progress or improvement in a field

Word family:

1. innovate (verb): They needed to innovate to stay ahead of competitors.
2. innovative (adjective): Her innovative approach solved the problem.
3. innovator (noun): Steve Jobs was a famous innovator in technology.

Activity 1: Innovation

Below are different forms of the word innovation. Match each form of the word with the correct part of speech.

verb | noun | adverb | adjective

Part of Speech	Word	Definition
	innovation / innovator	the act or process of introducing new ideas, methods or products / a person who introduces new ideas or methods
	innovative	introducing or using new ideas, methods or products
	innovate	to introduce something new or to make changes in an established field
	innovatively	in a way that shows creativity or introduces new ideas

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Activity 2: Innovation, Innovate, Innovator, Innovative, Innovatively

Underline the correct form of the word "innovate" to complete the sentences below.

1. The latest (**innovative / innovation**) in medical technology has made surgeries safer and more efficient.
2. Steve Jobs was a well-known (**innovator / innovative**) who changed the way we use technology.
3. The company continues to (**innovatively / innovate**) by developing new and exciting products.
4. The scientist's (**innovation / innovative**) approach led to the discovery of a new treatment.
5. She solved the problem (**innovate / innovatively**), finding a completely new way to improve the process.
6. The new phone has many (**innovatively / innovative**) features that make it different from older models.

Activity 3: The Development of Smartphones

Read the passage below about the development of smartphones and complete the activity which follows.

The Development of Smartphones

The invention of the mobile phone was one of the most significant technological advancements of the 20th century. It all began with the ideation of a device that could allow people to communicate wirelessly, no matter where they were. Early engineers and scientists worked tirelessly to turn this idea into reality, and their pioneering efforts laid the foundation for modern mobile technology.

The first mobile phones were large, heavy and expensive, but they were a novelty that captured the world's imagination. Over time, breakthroughs in technology made phones smaller, lighter and more affordable. The introduction of smartphones in the early 2000s was a revolutionary moment, transforming mobile phones from simple communication devices into powerful tools for work, entertainment and social connection.

Today, smartphones are an essential part of daily life, thanks to the pioneering work of early inventors and the continuous ideation of new features and applications. From the first bulky models to the sleek, multifunctional devices we use today, the development of smartphones is a story of innovation and progress.

Find words in the passage which have the following meanings. Write the answer in the space provided.

Definition	Word
the creation of something new, such as a device or process	
a development or discovery that advances knowledge or technology	

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leading the way in new developments or discoveries	
the quality of being new, original or unique	
the process of forming new ideas	
causing a major change or transformation	

Did you know?

The first mobile phone call was made on 3 April 1973 by Martin Cooper, an engineer at Motorola. He called his rival at Bell Labs to announce the success of the prototype device, which weighed a whopping 1 kg (2.2 pounds) and had a battery life of just 20 minutes! This ground-breaking device, called the Motorola DynaTAC 8000x, took 10 hours to recharge!



Activity 4: Complete the Sentence

Complete each sentence using the correct word from the word bank.

revolutionary | ideation | breakthrough | pioneering | invention | novelty

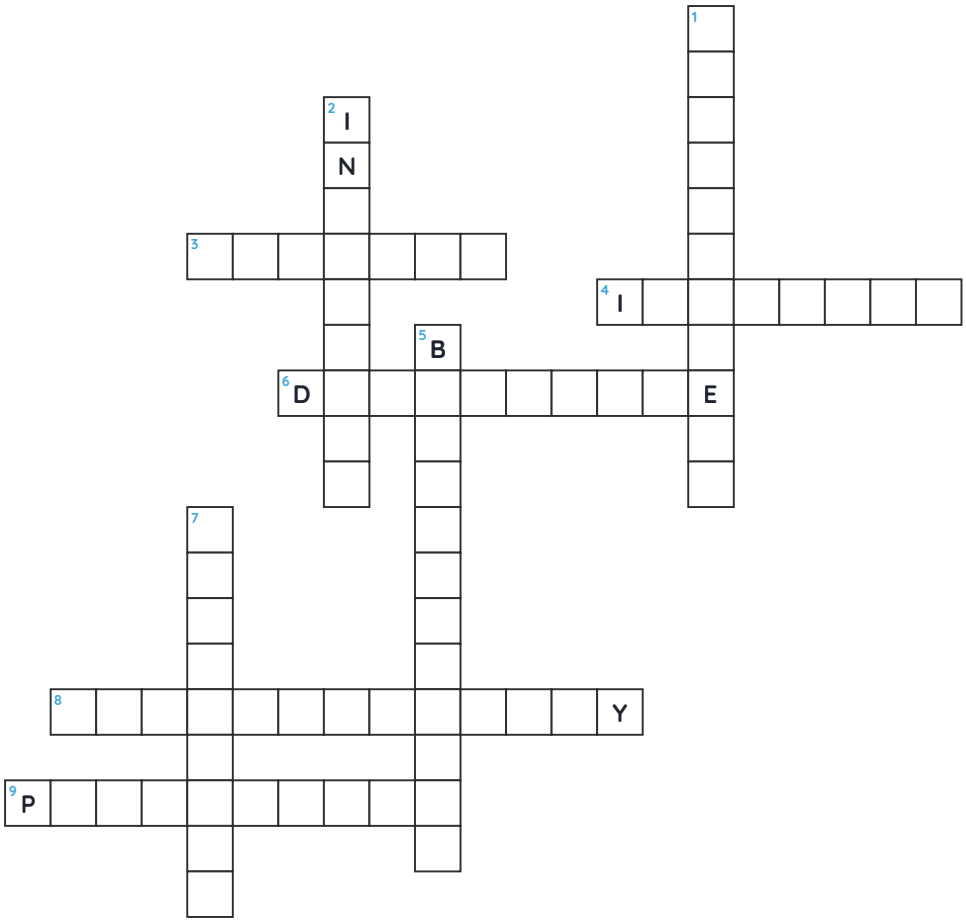
1. The _____ of the internet changed the way we access information.
2. A major _____ in medicine could lead to a cure for cancer.
3. The _____ work of early astronauts paved the way for space exploration.
4. The _____ of virtual reality games has made them very popular.
5. _____ is an important part of the creative process.
6. The smartphone was a _____ device that transformed communication.

04

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Activity 5: Technology Crossword

Solve this crossword puzzle using words you have learnt relating to innovation and technology. Use the clues provided to help you complete the crossword.



Across

3 the quality of being new, original or unique
4 the process of forming new ideas
6 causing significant change by challenging traditional methods or systems
8 causing a major or dramatic change; introducing completely new ideas or methods
9 leading the way in new developments or discoveries

Down

1 progress or improvement in a particular field, often through new discoveries or innovations
2 the creation of something new, such as a device or process
5 a significant development or discovery that advances knowledge or technology
7 finding something previously unknown or hidden

05

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Answers and Explanations

Section 1: Innovation and Creativity

Activity 1: Innovation

noun: innovation / innovator; adjective: innovative; verb: innovate; adverb: innovatively

Activity 2: Innovation, Innovate, Innovator, Innovative, Innovatively

1. innovation
2. innovator
3. innovate
4. innovative
5. innovatively
6. innovative

Activity 3: The Development of Smartphones

1. invention
2. breakthroughs (accept breakthrough)
3. pioneering
4. novelty
5. ideation
6. revolutionary

Activity 4: Complete the Sentence

1. invention
2. breakthrough
3. pioneering
4. novelty
5. Ideation
6. revolutionary

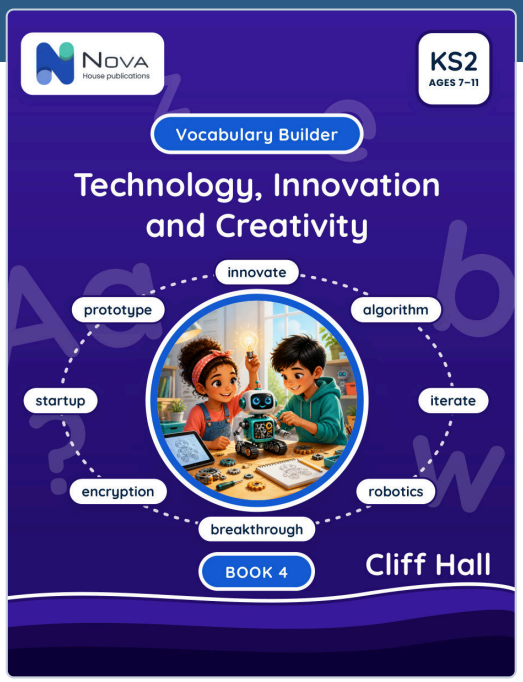
Activity 5: Technology Crossword

Across: 3 novelty, 4 ideation, 6 disruptive, 8 revolutionary, 9 pioneering
Down: 1 advancement, 2 invention, 5 breakthrough, 7 discovery

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Book 4: Technology, Innovation and Creativity

- Six sections, from Innovation and Creativity to Advanced and Emerging Technologies
- Word families, compound words and synonyms
- Crosswords, reading passages and planning a short talk
- Answers and a full glossary at the back

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