

# DNA CRACKING THE CODE OF LIFE

## ANSWERS

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**What is the code for life DNA?** DNA (or deoxyribonucleic acid) is a long molecule that contains our unique genetic code. Like a recipe book, it holds the instructions for making all the proteins in our bodies.

**Who solved the DNA code?** In 1961, Francis Crick, Sydney Brenner, Leslie Barnett, and Richard Watts-Tobin first demonstrated the three bases of DNA code for one amino acid [7]. That was the moment that scientists cracked the code of life.

**What was the diagnosis of Hayden and what does the disorder do?** ROBERT KRULWICH: It turned out that Hayden had Tay Sachs disease, a genetic condition that slowly destroys a baby's brain.

**What does Dr. Lander say about how similar the DNA of one human is to another human compared to how similar the DNA of one chimpanzee is to another chimpanzee?** Lander compare human DNA to the similarity of chimpanzee DNA? 99% - Humans are more similar to chimps than chimps are to chimps.

**How do I find my DNA code?** The critical feature of our DNA is the order—the sequence—of its A, C, G, and T letters. That sequence of A's, C's, G's, and T's is unique to each of us (unless we're an identical twin)—it's our personal DNA code.

**What are the 4 codes of DNA?** ?Genetic Code Each gene's code uses the four nucleotide bases of DNA: adenine (A), cytosine (C), guanine (G) and thymine (T) — in various ways to spell out three-letter “codons” that specify which amino acid is needed at each position within a protein.

**What is the human code?** The human genome, comprising our DNA, can be viewed as a type of biological code. DNA sequences contain instructions that govern the development, functioning, and characteristics of an individual.

**Is the genetic code a real code?** The genetic code is a set of rules defining how the four-letter code of DNA is translated into the 20-letter code of amino acids, which are the building blocks of proteins.

**What is the language of the DNA?** Four letters make up the genetic alphabet: A, T, G, and C. In one sense, a gene is nothing more than a sequence of those letters, like TTGAAGCATA..., which has a certain biological meaning or function.

**What fruit do scientists say that we are very closely related to?** Gene sequencing reveals that we have more in common with bananas, chickens, and fruit flies than you may expect. We've long known that we're closely related to chimpanzees and other primates, but did you know that humans also share more than half of our genetic material with chickens, fruit flies, and bananas?

**Where can I watch Cracking the Code of life?** NOVA Online | Cracking the Code of Life | Watch the Program Here.

**Is it true that not all genes are turned on at a given time?** Each cell expresses, or turns on, only a fraction of its genes at any given time. The rest of the genes are repressed, or turned off. The process of turning genes on and off is known as gene regulation. Gene regulation is an important part of normal development.

**Are any two humans the same?** The human genome comprises about  $3 \times 10^9$  base pairs of DNA, and the extent of human genetic variation is such that no two humans, save identical twins, ever have been or will be genetically identical. Between any two humans, the amount of genetic variation—biochemical individuality—is about . 1 percent.

**How close is human DNA to bananas?** About 60 percent of our genes have a recognizable counterpart in the banana genome! "Of those 60 percent, the proteins encoded by them are roughly 40 percent identical when we compare the amino acid sequence of the human protein to its equivalent in the banana," Brody adds.

**What animal DNA is closest to humans?** It confirms that our closest living biological relatives are chimpanzees and bonobos, with whom we share many traits. But we did not evolve directly from any primates living today. DNA also shows that our species and chimpanzees diverged from a common ancestor species that lived between 8 and 6 million years ago.

**What does DNA code of life mean?** The DNA code is really the 'language of life.' It contains the instructions for making a living thing. The DNA code is made up of a simple alphabet consisting of only four 'letters' and 64 three-letter 'words' called codons.

**What is the alphabet of life DNA?** Life on Earth is dictated by the DNA alphabet comprised of only four DNA bases or letters: A, T, G and C. It has long been of interest to understand whether there is something very special about the four letters that comprise DNA and whether this is the only code that could support life.

**What are the genetic codes of life?** The genetic code is the set of rules used by living cells to translate information encoded within genetic material (DNA or RNA sequences of nucleotide triplets, or codons) into proteins.

**What is the human DNA code?** Each DNA strand is composed of four different units, called nucleotides, that are linked end to end to form a long chain (Figure 2-2). These four nucleotides are symbolized as A, G, C, and T, which stand for the four bases—adenine, guanine, cytosine, and thymine—that are parts of the nucleotides.

## **The Enchantress of Florence: A Q&A with Salman Rushdie**

**What is "The Enchantress of Florence"?**

"The Enchantress of Florence" is a historical novel by renowned author Salman Rushdie, first published in 2008. The novel tells the story of Niccolò Machiavelli, the 16th-century Italian political philosopher, and his encounter with a mysterious young woman named Sofonisba Anguissola.

**What is the significance of Sofonisba Anguissola?**

Sofonisba Anguissola was a real historical figure, an Italian painter who lived in the 16th century. She was known for her groundbreaking self-portraits and her role as a tutor to the Spanish royal family. In Rushdie's novel, Sofonisba is depicted as an intelligent and resourceful woman who challenges Machiavelli's conventional views on love, politics, and the role of women in society.

### **How does Rushdie explore the themes of power and identity in the novel?**

Through the interactions between Machiavelli and Sofonisba, Rushdie examines the nature of power and the construction of identity. Machiavelli, a master of political manipulation, finds himself outmaneuvered by Sofonisba's wit and independence. Sofonisba, on the other hand, grapples with her own identity as a woman and an artist in a male-dominated world.

### **What makes "The Enchantress of Florence" a compelling read?**

Rushdie's vibrant prose and vivid storytelling bring the historical setting to life. The novel is a fascinating blend of history, fiction, and philosophy that explores the timeless themes of love, power, and the human condition. Its complex characters and thought-provoking ideas make it an engrossing read for both history buffs and lovers of literature.

### **Is the novel relevant to contemporary society?**

While set in the 16th century, "The Enchantress of Florence" raises questions that are still relevant today. Its exploration of gender roles, the nature of power, and the importance of individuality resonates with modern readers. The novel ultimately encourages us to challenge societal norms and to embrace our own agency and identity.

**Which passage is most difficult in IELTS reading?** 'True, False, Not Given' questions require you to identify if the information in a text is true or not. You will be given a number of factual statements and have to check in the text whether they are true. This is probably the most difficult question in the reading paper.

### **How can I get IELTS reading answers?**

## **How to answer reading comprehension questions in IELTS?**

**What is the reading comprehension test for IELTS?** In the IELTS Reading test, you will have 40 questions to answer over the three sections. There is just one right answer for each question. Each correct response will get you one mark. Your band score for the Reading test will be determined by the total number of points.

**How to get 9.0 in IELTS reading?** You don't need to read attentively every word. Remember, you just need to answer the questions, nothing more. So skim over the text and then start looking for the answers. Don't forget you have only 60 minutes to read three texts and answer 40 questions.

**What is the hardest skill in IELTS?** One of the most challenging parts of the IELTS exam is the writing section. This is because it requires not only strong language skills, but also the ability to organize your thoughts and present them in a clear and cohesive manner.

## **How to complete reading IELTS in 1 hour?**

**Do they repeat IELTS reading questions?** Questions in the IELTS Reading and Listening tests do not get repeated. The questions are randomly generated from a pool of questions, and while they may cover similar topics, they will not be identical to questions from previous tests.

## **How can I get 7.5 in IELTS reading?**

**Who checks IELTS reading answers?** Is the test marked by a computer or by a person? The IELTS Reading and Listening sections are marked automatically by the computer, while the Writing and Speaking sections continue to be graded by trained Examiners.

## **How to read IELTS reading quickly?**

## **How do I practice IELTS reading?**

**How difficult is IELTS reading?** You can't identify key information We understand that being thrown a bunch of unfamiliar vocabulary can be overwhelming for a first-time IELTS test taker. But don't be discouraged as finding key information in the text

isn't as hard as long as you're equipped with the right skills.

### **What is the best website to practice IELTS reading?**

**Is 6.5 reading IELTS easy?** Getting a 6.5 band on the IELTS test is a common goal for many individuals planning to study or work abroad as it is widely accepted by universities and organisations. Therefore, achieving this score requires a comprehensive understanding of the test format, as well as diligent preparation and practice.

**Can I retake IELTS reading only?** You can retake any one section of the IELTS test, whether it's Listening, Reading, Writing, or Speaking. The format and timing of that IELTS One Skill Retake test is the same as that individual skill in a normal IELTS test. But you save time because you do not need to complete the other three skills.

**Is it hard to get 7.0 in IELTS?** Achieving a score of 7 in the IELTS test, particularly in the production skills of Writing and Speaking, can be challenging. Many candidates face difficulty in making the leap from 6.5 to 7.

### **How to crack reading in IELTS?**

**Which part of IELTS is tough?** It will show your fluency in the English language. Q2 - Which module of IELTS is tough? Ans - The writing part is particularly difficult because of the exam's strict time limits. Students have to create ideas, write at least 400 words for each activity, and allow sufficient time to read their answers.

**What is the easiest skill in IELTS?** (1) LISTENING This is supposedly the easiest skill but it is not easy. To be successful, students need a high knowledge of English and a good knowledge of the specifics of the test. The listening is divided into four parts and each part follows a specific format. Spelling, grammar and vocabulary are all important.

**What is the poor score for IELTS?** If you tested into IELTS Band 5, you almost certainly need better English for university study. And at Band 4 or below the average IELTS score, your English proficiency is likely too low for most immigration visas. If you scored in these lower IELTS Bands, you aren't really ready for an IELTS retake.

**How can I get 8.5 in IELTS reading?** Tips to score well in the IELTS Reading test In Academic Reading, begin by quickly going through each passage to identify features like the topic, style, likely source, writer's purpose, and intended reader. Reading tasks sometimes have an example answer. If so, study it and understand why it's correct.

**How can I improve my IELTS reading fast?**

**How many hours a day should I prepare for IELTS?** "Spend at least 30 days (or preferably 6-8 weeks) studying grammar, reading, writing, listening, and speaking in preparation for the IELTS. We also advise test-takers to spend three to four hours daily honing their test-taking abilities, techniques, and speed."

**Which section of IELTS is difficult?** Ans - The writing part is particularly difficult because of the exam's strict time limits. Students have to create ideas, write at least 400 words for each activity, and allow sufficient time to read their answers. Q3 - Which part of IELTS reading is difficult?

**What is the difficulty of reading in IELTS?**

**Which IELTS book is tough?** Some of the tests in books are very difficult and some are very easy. For example: In Cambridge IELTS 8 book, test 3 academic reading is very tough as compared to the other tests. They try to make them at a similar level but there are bound to be some differences.

**Which is the hardest IELTS component?** If you are sitting for the IELTS test, you might find the writing component difficult, especially if it's your first time writing so extensively. With a strict time limit with specific tasks to accomplish, it's easy to fumble the ball and make mistakes during the writing test.

**Does anyone get 9 in IELTS?** Yes, getting an IELTS band score of 9 in the actual exam is very much possible. This is possible if you have met the expectations of the IELTS examiner and showcased the qualities of a competent user of the English language.

**Is 4.5 A good score in IELTS?** An IELTS band 4.5 is between an IELTS band 4 and a band 5. At an IELTS band 4, you have a very basic understanding of English and

you are more comfortable communicating in familiar situations. It is difficult to use complex language. Then, at an IELTS band 5, you have a limited command of the language.

**Which is harder IELTS or Toefl?** Also, IELTS is comparatively shorter. The reading section in IELTS is considered much easier when compared to that of TOEFL's. The TOEFL essay is longer; 300 words, when compared to the 250 words essay in IELTS. In short, you'll need to prepare for TOEFL harder, as far as the reading section is considered.

**How can I solve IELTS reading fast?**

**What are the common mistakes in IELTS reading part?**

**Is IELTS reading harder than SAT?** Ans- Taking the IELTS exam is less difficult than taking the SAT. It varies by the students' qualifications and preparation to take the exam, in the end. SAT scores are mainly used in the United States and Canada as a requirement for university entrance.

**What is the hardest thing in IELTS?** The most difficult part of the IELTS exam varies depending on the individual. For many, the Writing section is particularly challenging due to the need for clear structure, vocabulary, and grammar.

**What is the most difficult writing topic in IELTS?** Some of the most common tough IELTS writing topics include education, technology, environment, society, health, and politics. To excel in these areas, students should familiarize themselves with the topics, practice writing essays on them, and analyze sample essays for structure and ideas.

**Which skill is difficult in IELTS?** Many candidates find the IELTS Listening component tough because of the various types of recordings being played and you're only given the chance to listen once! Thankfully, with the right resources, strategies and preparation, you'll be able to shore up your weaknesses to score better on test day.

**How many people fail IELTS?** Unfortunately, there are no exact statistics on the percentage of people who do not get their desired results on the IELTS exam. However, it is known through other resources that mention success in IELTS exams



that about 50 percent of first-time test takers do not achieve their desired scores after their first attempt.

**Which IELTS part is easiest?** Part 1 of the IELTS Speaking test is often referred to as the 'easiest' part. The reason for this, is the fact that the topics in part 1 are very familiar to you. You are asked questions about yourself, what you do and where you come from.

**Why is IELTS so difficult?** The type of questions included and the methodology used to correct the test and the length and format of every part of the exam are standardized. If one comes without preparation then any exam is difficult. Preparing for the IELTS exam includes focusing on different areas of the English language.

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**What is a laboratory manual?** Laboratory manuals contain descriptions of standard laboratory procedures, current techniques and safety measures, as well as formulae and other technical information.

**How do you pass a lab test?**

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