

**PROTEIN SYNTHESIS**

**TRANSCRIPTION**

1. The DNA double helix is unwound, and one strand is used as a template to synthesize a complementary mRNA strand. The mRNA strand is then processed (splicing) to remove introns and join exons.

**TRANSLATION**

2. The mRNA strand is translated by a ribosome. The ribosome reads the mRNA sequence in groups of three bases (codons). Transfer RNA (tRNA) molecules, each carrying a specific amino acid, bind to the mRNA codons. The amino acids are then joined together to form a polypeptide chain.

**3. Detailed Translation Process:**

The diagram shows a ribosome with a large subunit and a small subunit. The mRNA is threaded through the ribosome. The large subunit contains the E (exit) site, P (peptidyl transfer) site, and A (aminoacyl) site. The small subunit contains the 40S subunit. The ribosome moves along the mRNA, synthesizing the polypeptide chain.

**4. Ribosome Diagram:**

The diagram shows a ribosome with a large subunit and a small subunit. The large subunit contains the 60S subunit and the 50S subunit. The small subunit contains the 40S subunit. The ribosome is shown with the mRNA and the polypeptide chain.

A diagram of a cell with a prominent nucleus. The nucleus is a large, dark blue spherical structure. Inside it is a smaller, lighter blue nucleolus. The nucleus is surrounded by a nuclear envelope, depicted as a double membrane with pores. Labels with arrows point to the 'Nucleolus', 'Nuclear Envelope', and 'Nucleus'.



# THE GENETIC CODE

**"One codon is a letter"**

1. Morgan began to determine that the information for \_\_\_\_\_ was encoded in the \_\_\_\_\_. They suggested that knowing how the DNA coded among segments was in the \_\_\_\_\_ of the \_\_\_\_\_.

2. Experiments using the \_\_\_\_\_ demonstrated that the DNA code is \_\_\_\_\_.

3. The three bases code in \_\_\_\_\_ or \_\_\_\_\_ a \_\_\_\_\_.

4. \_\_\_\_\_ of the three bases of a codon in the DNA is \_\_\_\_\_ with the \_\_\_\_\_.

5. \_\_\_\_\_ the \_\_\_\_\_.

6. \_\_\_\_\_ together. The genetic code is a \_\_\_\_\_ of all the combinations of \_\_\_\_\_.

7. \_\_\_\_\_ the genetic code.



Genetic code

Genetic code

**"One gene = one protein"**

1. These scientists learned that DNA works as a \_\_\_\_\_.

2. They learned to learn the \_\_\_\_\_.

3. \_\_\_\_\_.

4. \_\_\_\_\_.

5. \_\_\_\_\_.

6. \_\_\_\_\_.

7. \_\_\_\_\_.

8. \_\_\_\_\_.

9. \_\_\_\_\_.

10. \_\_\_\_\_.



Genetic code

Genetic code

**A COPY OF THE GENETIC CODE CAN BE FOUND ON PAGE 89**

2. *Background:* Explain to participants that the questionnaire has \_\_\_\_\_ and provides an idea of \_\_\_\_\_, emphasizing that this only says that \_\_\_\_\_, not that \_\_\_\_\_.

Experiments have shown that the more information available to the user, the more likely they are to use the system. This is because the user can see the results of their actions and can adjust their behavior accordingly. This is a key principle of user-centered design.

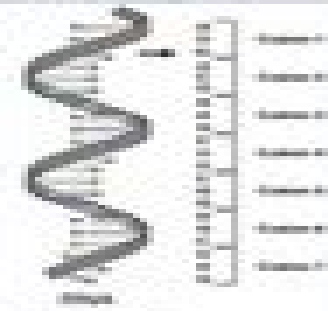
2) *Representing* During the 1980's, environmentalists have been successful in convincing a) \_\_\_\_\_ people. This success has made it difficult for business to establish a \_\_\_\_\_ toward the environment. b) coalition of the 1980s to implement laws that \_\_\_\_\_ the \_\_\_\_\_.

understand and appreciate the genetic code is a necessary step in the development of genetic engineering. This book is a first step in this direction.

10. *These questions should have been asked in the first place. They were not asked for these very reasons. The answers are:*

The authors thank Robert J. Flaherty, Ed. Emeritus, *Journal of Management Education*, for his helpful comments on an earlier draft of this manuscript.

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CLERK OF COURTS, DISTRICT OF NEW ORLEANS



**Abstract**

\_\_\_\_\_

# THE GENETIC CODE

|            |   | Second Base                              |                                      |                                                |                                               |   |            |
|------------|---|------------------------------------------|--------------------------------------|------------------------------------------------|-----------------------------------------------|---|------------|
|            |   | U                                        | C                                    | A                                              | G                                             |   |            |
| First Base | U | UUU } Phe<br>UUC }<br>UUA } Leu<br>UUG } | UCU } Ser<br>UCC }<br>UCA }<br>UCG } | UAU } Tyr<br>UAC }<br>UAA } Stop<br>UAG } Stop | UGU } Cys<br>UGC }<br>UGA } Stop<br>UGG } Trp | U | Third Base |
|            | C | CUU } Leu<br>CUC }<br>CUA }<br>CUG }     | CCU } Pro<br>CCC }<br>CCA }<br>CCG } | CAU } His<br>CAC }<br>CAA } Gln<br>CAG }       | CGU } Arg<br>CGC }<br>CGA }<br>CGG }          | C |            |
|            | A | AUU } Ile<br>AUC }<br>AUA }<br>AUG } Met | ACU } Thr<br>ACC }<br>ACA }<br>ACG } | AUU } Ile<br>AUC }<br>AUA }<br>AUG } Met       | AGU } Ser<br>AGC }<br>AGA } Arg<br>AGG }      | A |            |
|            | G | GUU } Val<br>GUC }<br>GUA }<br>GUG }     | GCU } Ala<br>GCC }<br>GCA }<br>GCG } | GAU } Asp<br>GAC }<br>GAA } Glu<br>GAG }       | GGU } Gly<br>GGC }<br>GGA }<br>GGG }          | G |            |

\*\*\* USE THIS GENETIC CODE AS A REFERENCE \*\*\*

|            |     | Second base |     |     |     |   |
|------------|-----|-------------|-----|-----|-----|---|
|            |     | U           | C   | A   | G   |   |
| First base | U   | UUU         | UUC | UUA | UUG | U |
|            |     | UUC         | UUC | UUC | UUG | C |
|            |     | UUA         | UUA | UUA | UUG | A |
|            |     | UUG         | UUG | UUA | UUG | G |
|            | C   | CUU         | CCU | CAU | CGU | U |
|            |     | CUC         | CCU | CAC | CGU | C |
|            |     | CUA         | CCA | CAA | CGU | A |
|            |     | CUG         | CCG | CAU | CGU | G |
|            | A   | AUU         | AUU | AUU | AUU | U |
|            |     | AUC         | AUU | AUU | AUU | C |
|            |     | AUA         | AUA | AUA | AUA | A |
|            |     | AUG         | AUA | AUA | AUA | G |
| G          | GUU | GUU         | GUU | GUU | U   |   |
|            | GUC | GUU         | GUU | GUU | C   |   |
|            | GUA | GUA         | GUA | GUA | A   |   |
|            | GUG | GUA         | GUA | GUA | G   |   |

**TABLE 1** | **Summary of the main findings from the studies included in the meta-analysis.**

[illegible][illegible]

| Account Name | Account Type    | Account Number    |
|--------------|-----------------|-------------------|
| Account 1    | Account Type 1  | Account Number 1  |
| Account 2    | Account Type 2  | Account Number 2  |
| Account 3    | Account Type 3  | Account Number 3  |
| Account 4    | Account Type 4  | Account Number 4  |
| Account 5    | Account Type 5  | Account Number 5  |
| Account 6    | Account Type 6  | Account Number 6  |
| Account 7    | Account Type 7  | Account Number 7  |
| Account 8    | Account Type 8  | Account Number 8  |
| Account 9    | Account Type 9  | Account Number 9  |
| Account 10   | Account Type 10 | Account Number 10 |

|    |    |    |    |
|----|----|----|----|
| 16 | 3  | 13 | 10 |
| 10 | 5  | 9  | 6  |
| 9  | 6  | 10 | 3  |
| 3  | 10 | 6  | 9  |

1. Using the data file containing *Worms*, do the following calculations for the *mass* variable. Round answers to the nearest hundredth.

ATP    CO<sub>2</sub>    ADP    H<sub>2</sub>O    O<sub>2</sub>    H<sub>2</sub>C    ATP

12. Strong and weak structures of  $\mathcal{P}(\mathcal{A})$ . Remark 12.60 The code is publicly available at <https://github.com/mauricio-fernandez/strong-weak-structures>.

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# Genetic Mutations Packet

**G Thomas**



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