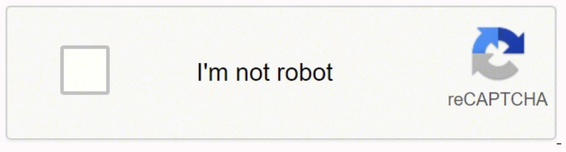

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Protein structure worksheet pdf

Protein Structure in 10 Points

- Globular proteins are **compact** and densely packed with only few empty spaces (cavities)
- Protein **conformation** and **dynamics** are coded in amino acid **sequence**
- A protein in its native conformation is at an energy minimum which results in **spontaneous folding**
- In soluble globular proteins, **hydrophobic** groups are predominantly on the **inside**, **hydrophilic** on the **outside** of the globule
- Most **backbone** NH and C=O groups are involved in **H-bonds** to other protein atoms
- **Homology** of sequence (>25-30% identity) → **similarity of structure**
- There are clear statistical **preferences** for some amino acids in some positions in some secondary structures (but secondary structure prediction from aa-sequence can be wrong…)
- **Loops** and **turns** tend to be on the **surface** of a globular protein
- Proteins are **dynamic molecules** capable of a wide range of motions
- Protein structure is dominated by **secondary structure**

CLASS SET! DON'T WRITE ON ME!!

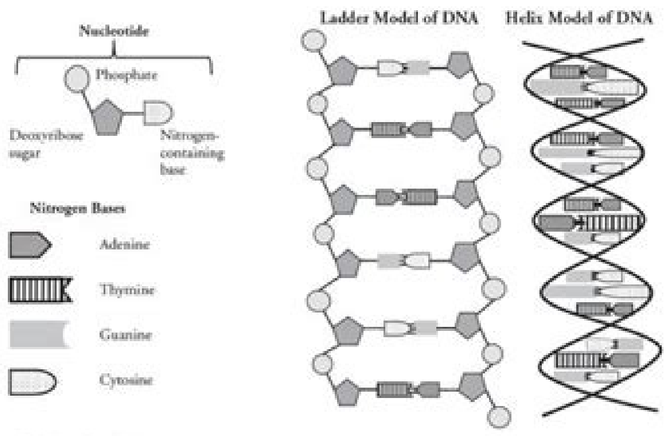
Model Sheet **DNA Structure and Replication**

How is genetic information stored and copied?

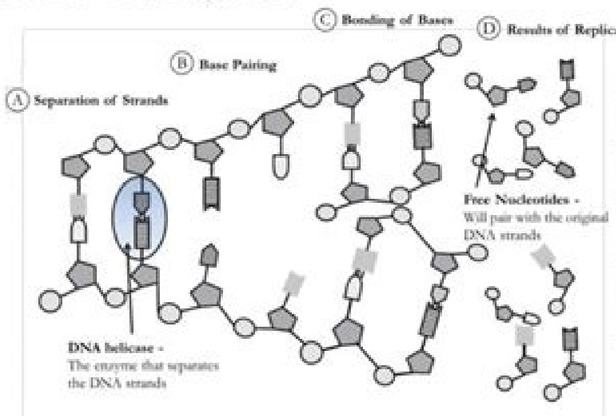
Why?

Deoxyribonucleic acid or **DNA** is the molecule of heredity. It contains the genetic blueprint for life. For organisms to grow and repair damaged cells, each cell must be capable of accurately copying itself. So how does the structure of DNA allow it to copy itself so accurately? In this activity, we will explore the answer to this question.

Model 1 – The Structure of DNA



Model 2 – DNA Replication



A	The 2 nucleotide strands of a DNA molecule separate as the hydrogen bonds break.
B	Free nucleotides pair with the original DNA strands following the complementary-base pair rule.
C	New hydrogen bonds form between the original bases and the bases of the new strand.
D	The process produces 2 molecules of DNA. Each new molecule has 1 strand from the original molecule and 1 strand that has been newly synthesized.

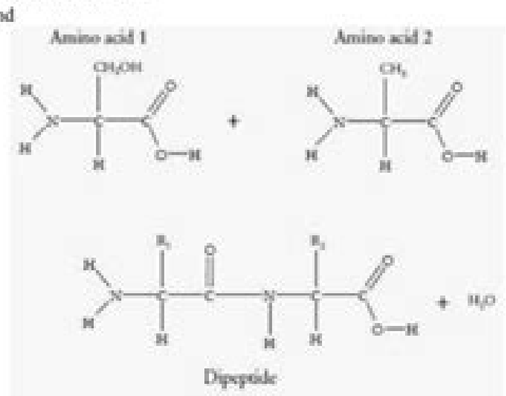
POGIL™ Activities for AP* Biology

What are the levels of protein structure and what role do functional groups play?

Why?

Proteins accomplish many cellular tasks such as facilitating chemical reactions, providing structure, and carrying information from one cell to another. How a protein chain coils up and folds determines its three-dimensional shape. Its shape will, in turn, determine how it interacts with other molecules and thus performs its function in the cell.

Model 1 – Formation of a Peptide Bond



1. Examine the amino acids in Model 1.
a. Circle an amine group in the diagram.
b. Draw a triangle around a carboxylic acid (carboxyl) group.
2. How are the amino acids similar to one another?

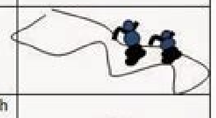
3. How are the amino acids different from one another?

4. How many amino acids are involved in the reaction to make a dipeptide?

5. In Model 1 the original amino acids are combined through a **condensation reaction** to make the dipeptide.
a. What does R1 represent in the dipeptide?

b. What does R2 represent in the dipeptide?

6. Put a box around the atoms in the amino acids that become the H2O molecule produced by the reaction in Model 1.
7. A peptide bond is a covalent bond linking two amino acids together in a peptide.
a. Circle the peptide bond in Model 1.

Name	Structure	Function	Picture
Nucleus	Cell membrane organelle with holes in it.	Holds the DNA.	
DNA	Twisted ladder	Contains the information for making proteins	
RNA	Small copy of DNA	A tiny message that states how to make one protein	
Ribosome	A protein made of a small part and a big part.	Reads the message (rna) and builds the protein.	
Endoplasmic Reticulum	Part of the nuclear membrane	Folds proteins in a special way	
Vesicle	A bubble of cell membrane	Carries proteins through the cell	
Golgi Body	An organelle that looks like a stack of pancakes.	Packages protein	

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SCIENCE TITLES

1. Life Science: Ecology
2. Physical Science Series: Mixtures and Solutions
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6. Desert Habitats
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14. Common Properties of Matter: Atoms, Elements, and States
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16. Enviro-Tacklebox: Module 4: Forces in the Environment: Glaciers: Movers and Shapers
17. Earthquakes: Our Restless Planet
18. Exploring Light and Color
19. Dr. Dad's PH3: Episode Two: Buoyancy
20. Earth Science: Earthquakes
21. Basics of Biology, The: The Human Body: Organ Systems Working Together
22. Basics of Physics: Exploring Light and Color
23. Geo Scientists: Diving Deep
24. Weather Smart: Tornadoes
25. Basics of Geology: Erosion and Weathering
26. Discovering the Elements
27. What's Out There? Our Solar System and Beyond
28. Continents Adrift: An Introduction to Continental Drift and Plate Tectonics
29. Earth Science: Volcanoes
30. Food Into Fuel: Our Digestive System
31. Safe Science: Lab Safety Awareness
32. Basics of Physics: Exploring Energy
33. Elements of Chemistry: Gases, Liquids, and Solids
34. Human Body Systems: The Digestive System
35. Raging Planet: Tornado
36. Elements of Physics: Light: Optics and Electricity

Protein structure worksheet answer key. Protein structure worksheet answers pogil. Protein structure worksheet pogil. Protein folding and protein structure worksheet. Protein structure worksheet answers. Protein structure worksheets high school. Protein structure worksheet answers model 1. Protein structure worksheet pdf.

This is a great virtual activity that allows students to see how transcription and translation work and how mutations can affect a protein. They can be used as a PPT review for the entire class, flash cards for struggling students, a formative assessment, or you can print, laminate, provide an answer Page 11DNA and Protein Synthesis Card Sortby Biology with Brynn and JackThis EDITIVE product asks students to sort cards containing the bonus components of DNA replication, transcription and translation. It includes matching, multiple choice, free answer and labeling a template. So I left tSujects:Types:Protein Synthesis & DNA – Digital Interactive Notebook by This notebook includes an introduction to the structure and function of DNA, transcription and translation. This game has 20 questions (30 questions if you consider that many questions have several parts), each using an engaging picture to enhance the question. There are 30 words in total. The simulation of bioman protein synthesis is a great tool for students to practice the concept of protein synthesis and test their knowledge. I included four diProtein Synthesis Mutation Virtual Activity by NO ADOBE FLASH PLAYER NEEDED!!This editable activity is based on the page A protein synthesis mutation of the Concord Consortium. RESPOND KEY INCLUDED.I have uploaded this in both PDF and .docx formats so you can feel Page 9DNA, RNA, Protein Synthesis Review Game This game is a fun way to review DNA, RNA, mutations, transcription, translation and synthesis of proteins before a test or test. As a buyer, we locate iPage 14 items Understanding food groups, and what groups the items fit into, is an important part of maintaining a healthy and balanced diet. 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Fats: fats, oils, cholesterol, fatty acids, triglycerides, saturates anPage 7This escape room is a fun way for students to improve their skills and knowledge of protein synthesis and gene regulation for AP Biology.Keywords Included for Gene Regulation: Promoter, TATA Box, Spliceosome, Repressor, Co-Repressor, Inductor, Negative Control, Positive Control, Enhancer, SiPage 8This EDITIVE exam asks students to demonstrate mastery of topics in DNA, RNA, transcription, translation, proteins, and mutations. The typical colours used for each atom are black for carbon, red for oxygen, yellow for hydrogen and blue for nitrogen. As a buyer, we located items iPage 19Learn Genetics – Protein Synthesis Virtual WebQuestby NO ADOBE FLASH PLAYER NEEDED!!This editable activity is based on page HTML 5, Learn Genetics Protein Synthesis, now updated. However, this may varyfacilitate biology teaching with a fully editable combined unit and daily lesson plan covering 5 (block) -10 (periods) days of a course of odicerefo odicerefo otudorp etse rop acietorp esetnÃs a racitarp ¡Ãri serodalupinam setse moc rahlabarT .sotnemila somsem sod seroiam sotof Ãulcni m©ÃbmaT .oir¡Ãdnuces Spyglass Biology contains a spreadsheet to help students practice transcription and translation using the Ã¢ â¬ ÃCodon decoder - generic. 30 questions included 5 In white Svisualizing the structure of the proteNão in students of JMolby, often struggle to understand the folding of proteNnas and the interactions µes bioquÃnas that lead to the different levels of structure of proteNana. In order to make this concept more concrete for students, the free program called JMOL can be used to visualize the 3D structure of a proteNão. This is a³th virtual activity that allows students to see how transcription and translation work. Then students read about the prote structure, and put it all together using Normal/SiCPage 4 (17 files) 6-day class that includes ** 4 digital interactive **, powerpoints, guided notes, skit, test, worksheets, guided Reading, card type, + white board model. They are like digital inbs, but all activities are separate so they can be implemented on different days. The four-finger synthesis sheet comes with a transcript and translation diagram. Moreover, if any ©m were work on setting up the grocery store, it is important to know which category items fall in order to touch up, unpack and more. Also included are the quest µ and keys, such as the 13-year-olds understanding the food groups, and which groups fit, not an important part of maintaining a healthy and balanced diet. ³ include: carbohydrates: Cars, starches, disaccharides, polysaccharides, glycogen and cellulose. These are an excellent review before a test, introduction or cleaning action. Slides include annotations µ processes, diagram modeling structures, vocabulary and click and drag models, space to practice transcription and translation, and more! This digital interface 12 the lined corresponding teks lined up that last the entirety of this unit, and academic year, visit here! These guided notes cover the teks teks B.6D, and B.6E, including RNA, protein synthesis details, and types of mutations. Essential questions, activating strategies, instructional strategies and summaWord Search covering the terminology that will be introduced when discussing Carbohydrate, Lipid, and Protein Metabolism with Biochemistry students. This can be done individually, in pairs,Protein Structure: Build Your Own Polypeptideby In this hands-on, interactive activity, students will use pipe cleaners and craft beads to explore the four levels of polypeptide structure (primary, secondary, tertiary, and quaternary) by building tangible representations of polypeptide chain macromolecules. Can be used with other Nutrition woPage 26Mutated Turkey Protein Synthesisby Students will go through transcription and translation to determine the phenotype of a turkey. Then, students practice transcribing and translating mutated genes, identifying the type of mutation that occurred. This lesson includes 26 additional questions and 1 additional question variation for subscribers. If you'd like to see the PowerPoint before you purchase, I have used it to record the following videos for my distance learniPrint out on card stock and laminate. Then they will compare an original turkey with a mutated one to see how different mutations can affect an organism's phenotype.Key terms: DNA, mRNA, Amino Acid, Protein Synthesis, Transcription, TranslatChemistry of Life - Building Proteins Labby This lab focuses on providing a visual representation of different components of a protein, by constructing different amino acids, using a model building kit. The entire process is animated to help students visualize the processes. SAVE by purchasing the bundle for 10 products worth every penny anPage 20Understanding food groups, and what groups items fall in, is an important part off maintaining a healthy and balanced diet. 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