Name _		Date	Period _
	<i>೬೦೦</i> Protein Synthes	is	
Purpos	e: To understand that different cells build different proteins because th the same <u>DNA</u> molecule.	ey use <i>differen</i> t <u>ge</u>	enes of
	Questions:		Stamp of
	ır notes to answer the following questions:		Approval
1.	If you were looking for DNA in a eukaryotic cell, where would you go	to find it?	Approval
2.	What is transcription and where does it occur?		
3.	What are the DNA-RNA base-pairing rules?		
4.	What is the name of the 3 nucleotide segments of mRNA?		
5.	Which organelle is responsible for making proteins?		
6.	What is translation and where does it occur?		
7.	During translation, what pairs up with the mRNA codons?		
8.	What do tRNAs carry to the ribosome, and what do they form as the	y link up to form a	chain?
Materia	als:		
	each Lab Station:		
	Lego "protein" recipe		
	Lego genetic code		
At a	a shared location:		
	Black Lego blocks		
	Blue Lego blocks		
	Green Lego blocks		
	Red Lego blocks		
	White Lego blocks		
	Yellow Lego blocks		
Pos	ted at the front of the classroom:		
	Lego DNA		
Proced	ure:		
1.	Write your cell type on your data sheet.		
	Copy your "recipe" onto your data sheet.		
	Copy the genes you will use onto your data sheet in groups of three.		
	Transcribe the DNA nucleotides into RNA nucleotides on your data si		
	Decode the RNA codons into the correct Lego blocks.		
6.	Build your Lego polypeptide chain.		
7.	Draw and color your Lego polypeptide chain.		
8.	Answer the questions.		

a	Name		Date Period
<u>6</u>	Cell Type:(હઉઉ Protein Synthesis Data Sheet	
æ	Recipe		
DNA	A		
RNA	IA		
쁭	Blocks		
Re	Recipe		
DNA	NA		
RNA			
18	STORES.		
8	Model		
٠ و ا	Questions: 1. What does each of the following represent?	Loo	Look at all the Lego towers made by the different groups:
•	Front of the classroom:	2.	How are they similar?
• •	Table with the blocks:	33	How are they different?
•	Lego blocks:	4.	Do different cells (liver, nerve, bone, etc.) have the same DNA?
•	Lego tower:	5.	Why do these different cells have different proteins?
•	The person in your group building the tower:		
•	The person in your group getting the blocks:		
•	The <u>person</u> in your group copying the genes from the front of the class	6	What do you think about the process of Protein Synthesis?
	onto his /hor paper.		