Cells and DNA Worksheet

1)	Below is a single strand of DNA.					
	Below each letter write the complementary stra	and of DNA.				
	A – T – G – C – G – G – C – G – A – T – T -	– T – A – A – G -	- C			
2)	We have many different types of cells in our be	ody. In the nucle	eus of every cell,			
	we find our DNA which stands for					
	The molecule's shape is called a					
	It is made up of 4 different	_, a sugar and _				
	backbone. DNA is like a	ladder.				
	The rungs are made up of the					
	The 4 bases are and _		and			
	and	·				
	matches up with		_ and			
	matches up with		The sequence of			
	the base pairs in the DNA determines which _		the ribosomes			

in the _____ will make. Some of my proteins are different than

yours because _____

- 3) Draw and label a cell and include--in the space provided--go big or go home!!
 - the nucleus
 - the DNA
 - the ribosomes

4) Every one of us has different strands of DNA -- the different sequences result in different characteristics. So I am short and green eyed and incredibly muscular!!

Your task is to make a person's strand of DNA. Unfortunately, you are going to use colouring pencils instead of gumdrops.

gumdrop color	DN	IA base
purple	Α	5
yellow	С	9
green	G	2
red	Т	

These are the triple base pairs and what the characteristic they code for:

Eyes:	blue	AGG
	green	AGC
	brown	TGG
	hazel	TGC
Hair:	brown	GCC
	black	GTG
	blonde	GCT
	red	GTC
Daniel and bands		$T \wedge \Lambda$
Dominant hand:		TAA
Dominant hand:	right left	TAA TTA
Dominant hand: Height:	left	TTA GAA
	left	TTA GAA GGG
	left short medium	TTA GAA
	left short medium	TTA GAA GGG
Height:	left short medium tall	TTA GAA GGG GTT

Person #1 is:

- short
- green eyed
- black haired
- round nosed
- right handed

Create a strand of DNA with the sequence that codes for Person #1:

D	Δ	re	^	n	#2	ie	
г	ᆫ	- 5	u		#2	15	_

- brown eyed
- tall
- pointy nosed
- left handed
- red haired

Construct the DNA sequence that codes for this person:				

Explain why we do not look like each other but you look similar to your biological parents?