Appendix A

Basic Genetic Concepts Survey

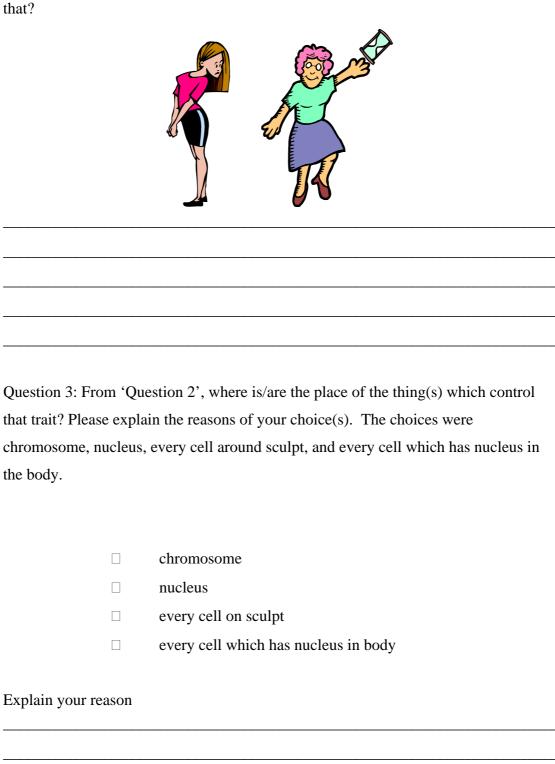
Basic Genetic Concepts Survey

Part I:	Background of Stu	ıdent		
1.	Gender			
2.	Age			
3.	What is your Grade level?			
	Grade 10	Grade 11	Grade 12	
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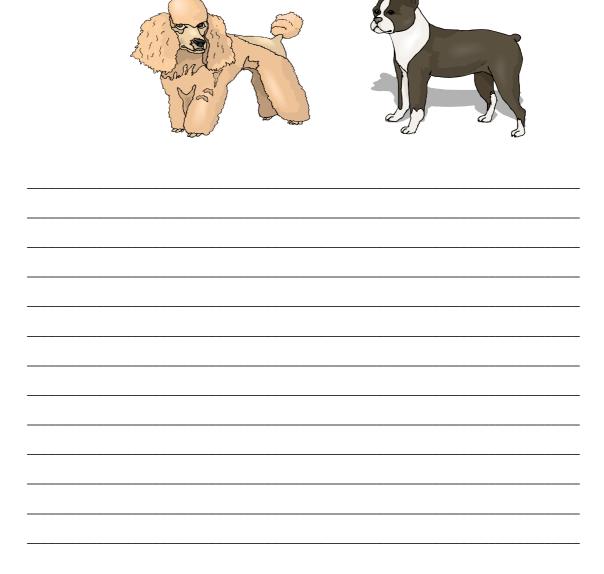
Part II: Basic Genetic Concepts

Question 1: Which traits can be transferred by inheritance? You can choose by (✓) in front of choice(s). You can choose more than one choice.				
01 •1.01.• (0).	200 000 000 000 000 000 000 000			
	eyelids			
	reading ability			
	eyes color			
	dimples			
	flattened or prominent nose			
	running ability			
	hair color			
Explain your	choice(s)			

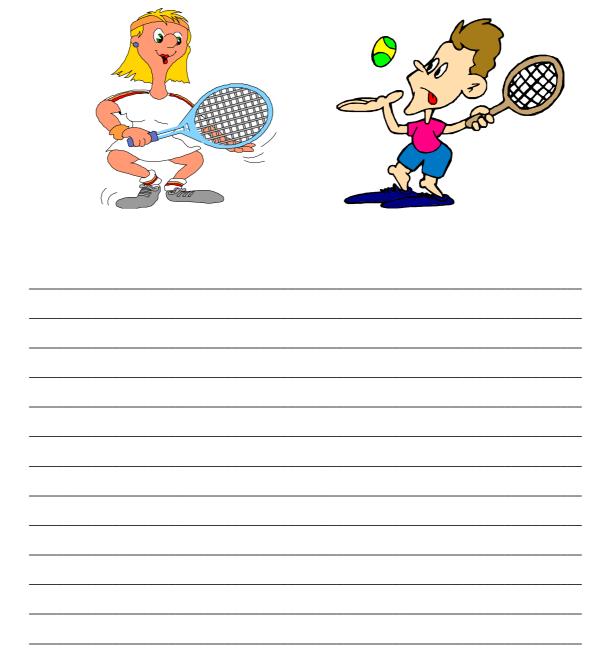
Question 2: What controls curled or straight hair of humans? Why do you think like that?



Question 4: Suwanan have a couple of dogs. The male dog has curled hair and falling ears. The female dog has smooth hair and standing ears. If their puppy or puppies have curled hair and standing ears, what is the thing that control the traits? And how can the traits be transferred from the parent dogs to the puppies or to the puppies future litters?



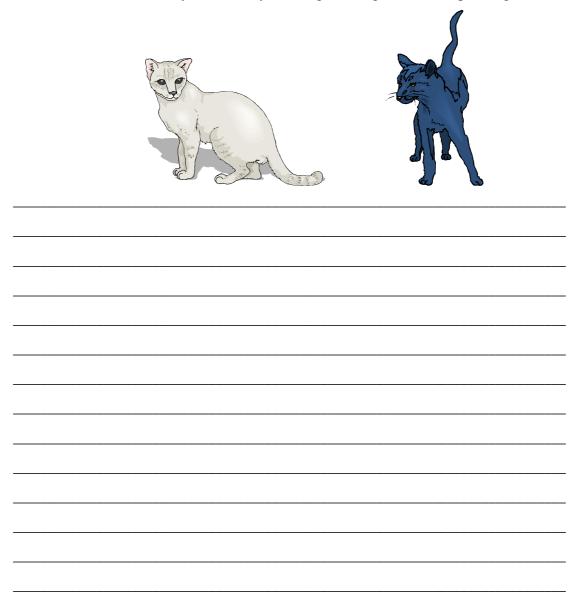
Question 5: Suppose that Paradorn and Tammy are famous tennis players who had trained before playing a game. If they get married to each other, will their children have ability in tennis when they are born? Why do you think like that?



	Question 6: Where is/are the position of chromosomes in the body? Why do you	
Question 7: Do the living organisms which have the same chromosome number	think like that?	
Question 7: Do the living organisms which have the same chromosome number necessary have to be the same living organisms? Why?		
necessary have to be the same living organisms? Why?	Question 7: Do the living organisms which have the same chromosome number	
	necessary have to be the same nying organisms. This	

Question 8: Are there the same number of chromosomes in sex cells that there are in
somatic cells? If not, what is the ratio of chromosome numbers in sex cells and in
somatic cells? Why do you think like that?
Question 9: What are the component(s) of chromosomes? Why are they important?

Question 10: Somsri has a black male cat and a white female cat. When they have kitties, all of them are black. How can you explain this situation? Why do you think like that? (You can show your ideas by drawing, making charts or explaining)



Question 11: Chatchai and Sinjai are a couple who have the thalassemia gene.
Thalassemia is a genetic disease. Both of them are normal people without any
symptom of thalassemia disease. Do their children have a chance of developing
thalassemia disease? Why do you think like that?
Question 12: If Chatchai gets married with one of his relatives, what is the chance of
their children having thalassemia disease?

	heir offspring?
And why do you think like that?	
and chromosome?	

Question 15: Hav	ve you ever heard about	genetic engineering'?	
	I heard	☐ I'd never heard	
If you heard abou	nt it, please answer these	questions.	
A. where	did you hear from?		
B. What	do you know about 'gen	etic engineering'?	