Appendix E

Students' Questionnaire Form

(Teaching and Learning Genetics Questionnaire for Disadvantaged High School Students)

Teaching and Learning Genetics Questionnaire for Disadvantaged High School Students

Part 1: Student's Information

1.	Gender			
	What is your level?			
	Grade 10	Grade 11	Grade 12	
4.	What is your most fa	avorite subject? Why o	lo you like the subject?	
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Part 2: Teaching and Learning Genetics Information

1. Which level, semester, and academic ye	ear that you ever learnt genetics?
Level	
Semester	
Academic year	
2. From genetic concepts in the table, which	h one are most difficult, difficult,
moderate difficult, or easy for learning gene	etics. Please identify the level of
difficulty in the box which matches with yo	ur opinion.
Genetic concepts	Level of Difficulty
^	MD* D* M* E*
1. Genetic Traits	
2. Dominant and Recessive	
3. Homozygous and Heterozygous	
4. Genotype and Phenotype	
5. Law of Segregation and Law of Independent As	ssortment
6. Alleles	
7. Multiple Genes or Polygenes	
8. Chromosome	
9. Relationship between Gene and Chromosome	
10. Chemical Structure of DNA	
11. DNA Properties and DNA Synthesis	
12. DNA and RNA in Protein Synthesis	
13. Genetic Codes	
14. DNA in Prokaryote and Eukaryote	
15. Mutation	
16. Genetic Engineering and Applications	

^{*} MD =Most difficult, D =Difficult, M =Moderate, E =Easy

most problem in genetic concepts for teaching and learning (Number 1 means the
most difficult) Please identify problems and solving problems in your answers.
Genetic Concept 1:
Problem:
Solving Problem:
Genetic Concept 2:
Problem:
Solving Problem:
Genetic Concept 3:
Problem:
Solving Problem:

3. From genetic concepts in table of item 2., please give three examples of the

4. How is teaching and learning genetics in your classroom?(Please tick ✓ in each box, which have frequency as same as your classroom)

Frequency	All topic	Almost all topic	Some topics	Never
Teaching and Learning				
Teacher demonstration				
Students do report				
Teacher explanation				
Students do project				
Teacher ask questions to let student				
think				
Teacher and students use CAI				
Student presentation				
Students do experiment				
Teacher set equipments and some				
students demonstrate				
Students study from information				
sheets and worksheets				
Role play				
Field trip				
Teacher and student discussion				
Debate				
Problem-based learning				
Expert explanation				
Others (Identify):				

		use genetics k	nowledge in you	ir daily lives
	your suggestion abou	it teaching and	learning genetic	s in the pre
6. What is/are time?	your suggestion abou	nt teaching and	learning genetic	s in the pres
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