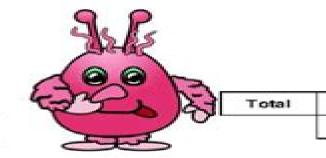
#### LIFE SCIENCES Grade 12

Practical Task Term 2: Genetics and Heredity

Date: \_\_\_\_\_

Name: \_\_\_\_

**Duration: 1 hour** 



#### SECTION A

#### QUESTION 1

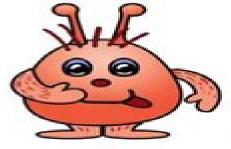
# INSTRUCTIONS TO LEARNERS – THIS IS AN INDIVIDUAL TASK. THE TASK MUST BE DONE IN CLASS UNDER CONTROLLED CONDITIONS.

#### Background

Every family has observable characteristics, or traits, that are passed on from parents to their children. We can categorize these traits in two different ways: as genotype and phenotype. A person's **genotype** is the set of genes that he/she carries (what their DNA 'says'). The **phenotype** is the observable characteristics (what we can see). Different versions of the same gene are called **alleles**. To keep things simple, we give the genotype a two-letter code. You will be given codes to use in this exercise.

Each letter of the two-letter code is an allele. Remember that you get two copies of each gene; one from more and one from dad.

You have two 'aliens' - a female and a male.





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# **Grade 12013 Life Science Practical Task**

**Tobias Bleicker** 

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