

## LIFE SCIENCES Grade 12

### Practical Task Term 2: Genetics and Heredity

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

Name: \_\_\_\_\_

Duration: 1 hour



|       |    |
|-------|----|
| Total |    |
|       | 30 |

## 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 mom and one from dad.

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



♀



♂

# Grade Practical Life Science

**R Sanford**



## **Grade Practical Life Science:**

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