**Formative Assessment – Understanding DNA**

**General Outcome #3:** Describe, in general terms, the role of genetic materials in the continuity and variation of species characteristics; and investigate and interpret related technologies (GO 3)

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| **Specific Outcomes** | **NU** | **D** | **U** |
| Describe, in general terms, the role and relationship of chromosomes, genes and DNA (SO 3A) |  |  |  |

**Show Your Understanding of DNA**

1. A nucleotide consists of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

2. Complete the “genetic code” for the DNA molecule.

 A - \_\_\_\_\_

 T - \_\_\_\_\_

 C - \_\_\_\_\_

 C - \_\_\_\_\_

 G - \_\_\_\_\_

 T - \_\_\_\_\_

 A - \_\_\_\_\_

 A - \_\_\_\_\_

 G - \_\_\_\_\_

 C - \_\_\_\_\_

 3. Match the description to one of the following terms.

* 1. Nucleotide D. Gamete
	2. Chromosomes E. Zygote
	3. Gene

\_\_\_\_\_ 1. a molecule composed of strands of DNA

\_\_\_\_\_ 2. the sex cell

\_\_\_\_\_ 3. a stretch of genetic material that codes for a specific protein

\_\_\_\_\_ 4. a unit of genetic material containing a sugar molecule, a phosphate group and a nitrogen base

\_\_\_\_\_ 5. the cell that results when two sex cells join

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| **Beginning** | **Acceptable** | **Proficient** | **Mastery** |