**DNA Chapter 6.1 &Cell Cycle Chapter 4 Section 3**

**(focus on DNA Structure) (focus on Mitosis)**

**NGSS**:

MS-LS3-2 --> Develop and use a model to describe why asexual reproduction results in offspring with identical genetic information and sexual reproduction results in offspring with genetic variation.

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| Learning Target | \*\*Mastery | \*Advanced | \*Meets | Approaching | Beginning |
| **I CAN** explain and describe the basic structure of DNA and how animal & plant cells produce more cells. | Thoroughly explain and describe the basic structure of DNA how animal & plant cells produce more cells. | Mostly explain and describe the basic structure of DNA how animal & plant cells produce more cells. | Somewhat explain and describe the basic structure of DNA how animal & plant cells produce more cells. | Struggling to explain and describe the basic structure of DNA how animal & plant cells produce more cells. | Wasn’t able to or didn’t make an attempt to explain and describe the basic structure of DNA how animal & plant cells produce more cells. |

The following statements are how to achieve \***Advanced** or \***Meets** for this Learning Target:

**** Describe the basic structure of the DNA molecule.

**** Explain what happens when there is an error in the nucleotide code.

**** Explain what a chromosome is, identify the number of chromosomes in a human, and identify the

structures of chromosome during the cell cycle.

To achieve \*\***MASTERY** you need to correctly answer 13 of the 14 summative assessment questions on the first part of the test **AND** be able to correctly and thoroughly complete the two questions below.

**** Be able to draw a simple DNA model.

**** Explain why cells in the human body need to be able to divide and be able to list examples.