Colegio Metropolitano
Sixth grade ENCINO PINO SAUCE
Science
Miss Alisson Coronado

**Knowledge Check 2 - PMA**

Name: _____ Score: _____

II Unit – Date: _____Code No. _____

Contents to evaluate: Mendel dominant and recessive, genetics vocabulary

**Part 1(4 points each= 40 points)**
**Instructions:** Choose the word that correctly completes the statement. Words may be repeated.

| |
|---|
| DNA |
| GENES |
| TRAIT |
| ALLELES |
| RECESSIVE |
| DOMINANT |
| GENETICS |
| HOMOZYGOUS |
| HETEROZYGOUS |
| PHENOTYPE |
| GENOTYPE |
| CHROMOSOMES |
| NUCLEUS |

1. Brown eyes is a _____ trait over blue eyes.
2. Inside the _____ we can find DNA.
3. _____ traits will hide, and may only appear in the upcoming generation.
4. When two alleles are the same, the trait is _____.
5. The _____ for color of hair is BB.
6. _____ are different forms of a characteristic.
7. The letters or _____ can explain if a trait is dominant or recessive.
8. _____ traits will overcome _____ traits, like dark skin overcomes light skin.
9. _____ control your traits.
10. A _____ is also called hybrid.

LIVEWORKSHEETS

**Part 2 (3 points each= 15 points)**
**Instructions:** Choose the word that makes this statement incorrect. Replace it for the right word. Write only the word that makes the statement correct. You can use the vocabulary from the box.

| |
|---|
| DNA |
| GENES |
| TRAIT |
| ALLELES |
| RECESSIVE |
| DOMINANT |
| GENETICS |
| HOMOZYGOUS |
| HETEROZYGOUS |
| PHENOTYPE |
| GENOTYPE |
| CHROMOSOMES |
| NUCLEUS |

1. Homozygous traits will create organisms that can inherit a recessive trait having in its phenotype a dominant trait.

   _____

2. Dominant traits hide in the background, and can only appear in homozygous state.

   _____

3. In the nucleus we can find genetics.

   _____

4. Two alleles used for one trait that are different (Bb) are homozygous. _____
5. The physical appearance of a trait is called a genotype.

   _____

**Part 3 (3 points each= 45 points)**
**Instructions:** type what the offspring would look like for the given cross.

**Genetics of Pea Plants**

| Traits | Seed Shape | Seed Color | Seed Coat Color | Pod Shape | Pod Color | Flower Position | Stem Height |
|---|---|---|---|---|---|---|---|
| Controlled by Dominant Allele |  Round |  Yellow |  Gray |  Smooth |  Green |  Side |  Tall |
| Controlled by Recessive Allele |  Wrinkled |  Green |  White |  Pinched |  Yellow |  End |  Short |

LIVEWORKSHEETS

**Practice Example:**
**Trait: Seed Shape Dominant Allele = Round Recessive Allele = Wrinkled**

Crosses:
Round + Wrinkle = Round
Round + Round = Round
Wrinkled + Wrinkled = Wrinkled

**Seed Color**

Dominant =

Recessive =

Yellow + Green =

Green + Green =

Yellow + Yellow =

**Pod Color**

Dominant =

Recessive =

Yellow + Yellow =

Green + Yellow =

Green + Green =

**Pod Shape**

Dominant =

Recessive =

Smooth + Pinched =

Pinched + Pinched =

Smooth + Smooth =

LIVEWORKSHEETS