**CHAPTER 3 – HEREDITY STUDY GUIDE**

**TEST: THURSDAY, FEBRUARY 21, 2019**

* **What happens when a true breeding plant self pollinates?**

**ALL OF THE OFFSPRING HAVE THE SAME TRAITS AS THE PARENTS**

* **Each parent gives one set of these to the offspring.**

**GENES**

* **A plant with 2 dominant OR 2 recessive alleles is said to be:**

**HOMOZYGOUS**

* **How are sex cells different from other human cells?**

**SEX CELLS HAVE HALF THE NUMBER OF CHROMOSOMES**

* **What are homologous chromosomes?**

**CHROMOSOMES THAT CARRY THE SAME SET OF GENES**

* **Why do sex linked disorders occur more often in males?**

**MALES HAVE ONLY 1 X CHROMOSOME**

* **The one thing that Gregor Mendel realized could explain the results of his experiments was that**

**EACH TRAIT HAD 2 SETS OF INSTRUCTIONS, ONE FROM EACH PARENT**

* **Instructions for an inherited gene are called**

**GENES**

* **The different forms of a gene that decide a characteristic are known as**

**ALLELES**

* **What did Mendel discover about recessive traits?**

**RECESSIVE TRAITS APPEAR IN THE SECOND GENERATION**

* **Which of the following is the name for the way cells divide in asexual reproduction?**

**MITOSIS**

* **What is the name for the way cells divide in sexual reproduction?**

**MEIOSIS**

* **What is the diagram that is used to trace a trait though generations in a family?**

**PEDIGREE**

* **What is a trait?**

**DIFFERENT FORMS OF A CHARACTERISTIC**

* **What is it called when a plant fertilizes itself?**

**SELF-POLLINATION**

* **What is incomplete dominance?**

**EACH ALLELE HAS ITS OWN DEGREE OF INFLUENCE**

* **Two forms of a gene, one from each parent, are called?**

**ALLELES**

* **What is heredity?**

**PASSING OF TRAITS FROM PARENTS TO OFFSPRING**

* **What is a phenotype?**

**HOW AN ORGANISM LOOKS**