**Unit 6: Genetics – Guided Notes Answer Sheet**

**Guided Notes: Genes and Chromosomes**

genes, chromosomes, hereditary

chromosome

nucleus

centromere

proteins

traits

chromosome, gene

cell nucleus

**Guided Notes: Define Genotypes and Phenotypes**

genotypes, phenotypes

characteristics

nucleus

alleles

genotype

phenotypes

dominant

recessive

genotype, alleles, genotype, phenotype

genotype, alleles, genotype, phenotype

**Guided Notes: Relate Genotypes and Phenotypes**

genotypes, phenotypes

genes

alleles

genotype

homozygous

heterozygous

dominant

recessive

genotype

phenotype

dominant, recessive, heterozygous, tall

dominant, recessive, homozygous, brown

**Guided Notes: Modeling Mutations**

mutation, protein

gene

hemoglobin

mutation

messenger RNA

amino acids

chromosome

genetic code

mutation

mutation, protein

gene, amino acids

**Guided Notes: Explain Effects of Mutations**

beneficial, harmful, neutral

mutation

harmful

beneficial

neutral

cystic fibrosis

skin cancer

advantage

camouflage

biodiversity

mutation, protein

beneficial, camouflage

**Guided Notes: Genetic Factors and Growth**

genetic, growth

growth

genetic

growth

final

genetic, growth

genetic, growth

**Guided Notes: Environment and Growth**

environmental, growth

drought

environmental

fertilizer

nitrogen, phosphorous

environmental, sunlight

fertilizer, nutrients