

**Title: Genetics and Meiosis Light bulb**

\_\_\_\_/2

Name: \_\_\_\_\_ Corrected By: \_\_\_\_\_

**Questions: 2 points per question**

\_\_\_\_/8

1. Why do genetics disorders happen? 14.1 & 14.2 pg 345-353
2. What is probability & how is it used to predict traits in organisms? 11.2 pg 267-274
3. How is genetic screening useful? 14.1 pg 341-342, 14.3 pg 355-357
4. Why do siblings look different? 11.1 pg 262-266 & 14.1 pg 340-344

**Does your lightbulb include the following in each section?**

Color: \_\_\_\_\_/8

Diagrams: \_\_\_\_\_/8

Written Explanations: \_\_\_\_\_/8

**Put the four questions in the middle of the light bulb. Answer each question in paragraph form using the provided terminology below in the space around the light bulb. Only 1 point per term if answered as a definition and does not address the question asked.**

1. Recessive allele \_\_\_\_/2

1. Dominant allele \_\_\_\_/2

1. Codominant allele \_\_\_\_/2

1. Autosomal disorders \_\_\_\_/2

1. Deletion \_\_\_\_/2

1. Sex-linked genes \_\_\_\_/2

1. Nondisjunction disorders \_\_\_\_/2

1. Sex Chromosome disorders \_\_\_\_/2

2. Probability \_\_\_\_/2

2. Punnett Square \_\_\_\_/2

2. Homozygous \_\_\_\_/2

2. Heterozygous \_\_\_\_/2

2. Phenotype \_\_\_\_/2

2. Genotype \_\_\_\_/2

3. Chromosome \_\_\_\_/2

3. Karyotype \_\_\_\_/2

3. Sex chromosome \_\_\_\_/2

3. Autosome \_\_\_\_/2

3. Pedigree \_\_\_\_/2

4. Gamete \_\_\_\_/2

4. Trait \_\_\_\_/2

4. Allele \_\_\_\_/2

4. Gene \_\_\_\_/2

4. Heredity \_\_\_\_/2

2. Independent assortment\_\_\_/2

total= \_\_\_\_/84