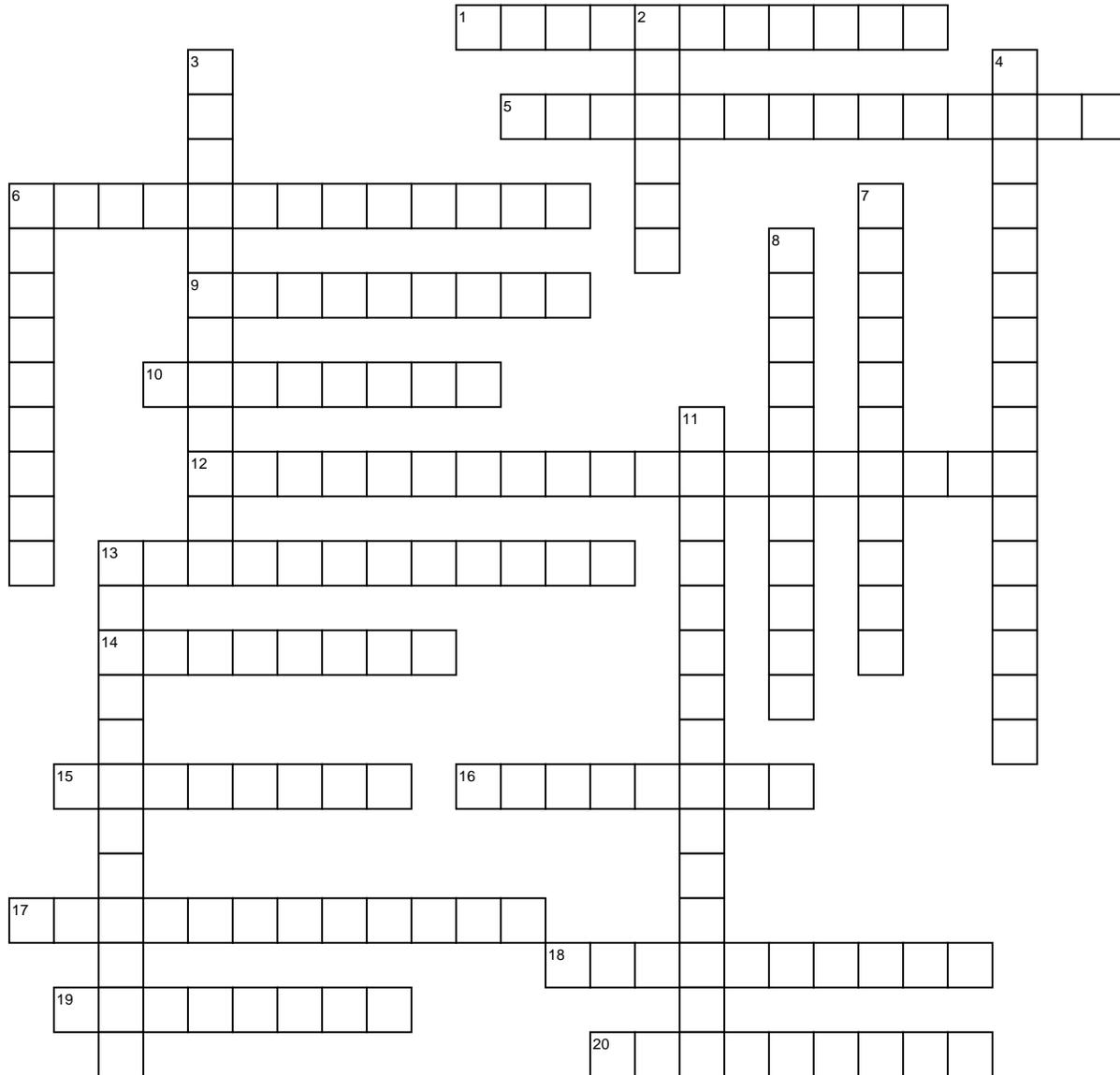


# Roland-Story Biology

## Chapter 8 Mendel and Heredity



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### ACROSS

- 1 the likelihood that a possible future event will occur in any
- 5 a trait that is determined by a gene found on one of the sex chromosomes, such as the X chromosome or the Y chromosome in humans
- 6 a graphic used to predict the chances that offspring will inherit an allele for a trait
- 9 describes a trait or an allele that is expressed in the phenotype of the living thing only when two recessive alleles for the same characteristic are inherited
- 10 the passing of genetic traits from parent to offspring
- 12 a condition in which a trait in an individual is intermediate between the phenotype of the individual's two parents because the dominant allele is unable to express itself fully
- 13 the second generation of offspring obtained from an experimental cross of two organisms; the offspring of the F1 generation
- 14 the entire genetic makeup of an organism; also the combination of genes for one or more specific traits
- 15 a diagram that shows the occurrence of a genetic trait in several generations of a family
- 16 the science of heredity and of the ways in which traits are passed from parents to offspring
- 17 describes an individual that has two different alleles for a trait
- 18 describes an individual that has identical alleles for a trait on both homologous chromosomes
- 19 describes a trait or an allele that is fully expressed in the phenotype of the living thing when the trait allele is carried by only one of a pair of homologous chromosomes
- 20 the crossing of an individual of unknown genotype with a
- 2 determines a characteristic, such as hair color
- 3 describes living things or genotypes that are homozygous for a specific trait and thus always make offspring that have the same phenotype for that trait
- 4 Mendel's law that states that the pairs of homologous chromosomes separate in meiosis so that only one chromosome from each pair is present in each gamete
- 6 a living thing's appearance or other detectable characteristic that results from the living thing's genotype and the environment
- 7 parental generation, the first two individuals that mate in a genetic cross
- 8 a condition in which both alleles for a gene are fully expressed
- 11 a mating in which the parents each display a different form of one character, such as flower color
- 13 the first generation of offspring obtained from an experimental cross of two organisms

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