

LINEUP OF GENES

Chromosome: Found in the nucleus of cells. Made of DNA. Carry genes.

Gene: A segment of DNA on a chromosome that has instructions for a specific trait.

Allele: Alternative form that a single gene may have for a particular trait. (for example A or a)

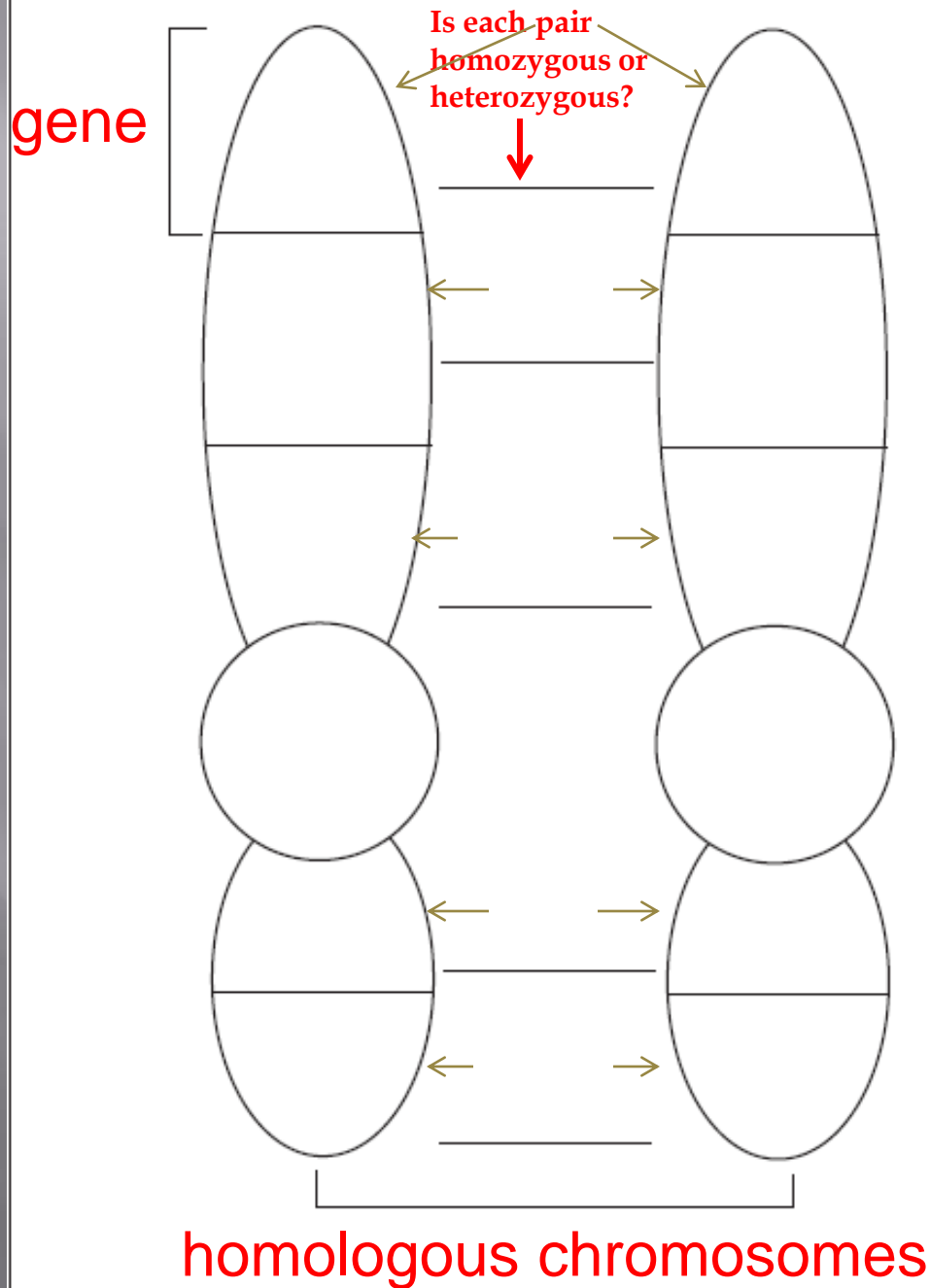
Homozygous: Two alleles for a gene that are identical. For example: AA or aa. Also called purebred.

Heterozygous: Two alleles for a gene that are different. For example Aa. Also called hybrid.

Homologous chromosomes:

Pair of chromosomes; one came from mom and the other from dad. The maternal and paternal **chromosomes** in a **homologous** pair have the same genes at the same location, but possibly different alleles.

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1. Pick 2 pieces from each bag. These are GENES.
2. Glue in the correct spot on the chromosomes.
3. Label homozygous or heterozygous for each gene.
4. Label "gene" and "homologous chromosome"