

**BIOLOGY VOCABULARY EOC REVIEW
GASTON COUNTY SCHOOLS**

- 1. cellular structure with analogous function to the human skeleton; maintains cell shape
- 2. protein that changes the rate of a chemical reaction and is involved in nearly all metabolic processes
- 3. disease-causing, non-living particle composed of an inner core of nucleic acids surrounded by a capsid and can reproduce only when they are inside a host cell
- 4. carry the code from DNA to the ribosomes
- 3. organelle within the cell functioning like a miniature stomach
- 6. "power-house" of the cell
- 7. stage of meiosis beginning with homologous chromosomes, each with its two chromatids, separating and moving to opposite ends of the cell
- 8. non-sister chromatids from homologous chromosomes break and exchange genetic material
- 9. failure of chromosomes to separate properly during meiosis
- 10. type of cell division where one body cell produces four gametes, each with half the number of chromosomes
- 11. 23rd pair of chromosomes
- 12. type of inheritance where offspring that show both tan and brown fur (patched father with brown fur and a patched mother with tan fur)
- 13. when gametes are produced, each gamete receives one of two possible alleles
- 14. base that pairs with adenine in RNA
- 15. genotype for a homozygous tall pea plant; genotype for a heterozygous tall pea plant
- 16. results in an RNA copy of a DNA strand
- 17. chance of a child inheriting a recessive disorder caused by a gene, if both parents carry a single recessive gene
- 18. explanation for a question or a problem that can be formally tested
- 19. alteration of allelic frequencies by change events that greatly effects small populations
- 20. dolphins and fish are unrelated vertebrates with similar body shapes that are adapted for moving efficiently through water; what is the evolutionary process shown by this example?
- 21. process that uses oxygen to break down glucose and release energy
- 22. weakened, dead, or incomplete portions of pathogens or antigens used to prevent disease outbreak
- 23. phenotypic ratio of offspring from two heterozygous parents that have a single dominant trait
- 24. plants or animals that contain functional recombinant DNA from an organism of a different genus
- 25. drawing a conclusion based on circumstantial evidence rather than as a result of observation
- 26. organized study of living things and their interactions with their natural and physical environments
- 27. any structure, behavior, or internal process that enables an organism to respond to environmental factors and live to produce offspring
- 28. group of organisms that can interbreed and produce fertile offspring in nature
- 29. an explanation for a question or problem that can be tested
- 30. basic unit of organization of living things
- 31. any close and permanent association among organisms of different species
- 32. simple model used to show how matter and energy move through an ecosystem
- 33. organisms that use energy from the sun or energy stored in chemical compounds to manufacture their own nutrients
- 34. organism that consumes both plant and animal products
- 35. variety of life
- 36. when the last member of a species dies
- 37. interrelationship where one species benefits, while another species is neither helped nor hurt
- 38. non-living factors: latitude, temperature, precipitation, sunlight
- 39. living factors: organisms, predators, diseases
- 40. net movement of particles from an area of higher concentration to an area of lower concentration
- 41. states cells are a basic unit of organization, all organisms are made up of one or more cells, and all cells come from preexisting cells
- 42. cells that have a nucleus and other organelles enclosed by a plasma membrane
- 43. plasma membrane controls what enters and leaves the cell
- 44. cells without a nucleus or other organelles, but with nucleic acids
- 45. moves materials against the concentration gradient and requires energy to overcome flow of materials opposite the concentration gradient
- 46. small, dark cylindrical structures that are made of microtubules and located just outside the nucleus, and play an active role in cell division
- 47. molecule that stores energy for easy use, formed when a phosphate group is added to ADP
- 48. process by which cells use light energy to make simple sugars
- 49. processes that require oxygen
- 50. processes that do not require oxygen
- 51. process by which amino acids are linearly arranged into proteins through the involvement of tRNA, rRNA, mRNA and enzymes
- 52. cellular division resulting in two daughter cells, exactly identical to parent cells, with a complete set of chromosomes
- 53. male and female sex cells, formed during meiosis
- 54. the passing on of characteristics from parents to offspring
- 55. cell containing two of each kind of chromosome, 2n number of chromosomes

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