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Semester 1 biology review

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| **Across**  **2.** phase of mitosis when the chromosomes are lined up across the equator of the cell  **3.** whip-like structure that helps a cell move  **5.** splitting of the cytoplasm of a cell following mitosis  **6.** type of environment in which a cell would shrink and shrivel  **8.** www.\_\_\_\_\_\_\_\_.com is the website to get to GIZMO labs  **11.** XX  **12.** where meiosis takes place in males  **13.** amount of a substance  **17.** nitrogen base that triple bonds to guanine  **18.** contains the genetic code for making proteins  **22.** maintaining a stable internal environment  **27.** trisomy 21  **28.** the factor you control when you are doing an experiment  **32.** number of different allele combinations from AaBb  **33.** Photograph of chromosomes arranged in pairs  **36.** responsible for bailing out water in a Paramecium  **39.** what a living thing responds to in the environment  **40.** cell organelle where proteins are made;make RER rough; most numerous organelle  **41.** 46 for humans (2n)  **42.** occupies most of the volume of plant cells  **43.** on-line lab activities to review for your exam | **Down**  **1.** type of animal whose egg changes gender according to temperature  **4.** when Vincent pretends to be Jerome  **7.** nitrogen base that double bonds to thymine  **9.** the sugar in DNA  **10.** 23 for humans (n)  **14.** genetic disease treated with a strict low-protein diet  **15.** your heart and diaphragm  **16.** controls what enters and leaves the cell  **19.** change over time  **20.** a tadpole turning into a frog; a caterpillar turning into a butterfly  **21.** Stage of the cell cycle in which a cell's DNA is copied  **23.** type of a cell division that produces two identical cells  **24.** a chromosome that looks like an 'X' has \_\_\_\_\_sister chromatids  **25.** gas that comes out of photosynthesis  **26.** Anton's brother  **29.** total magnification under high power of our microscopes  **30.** XY  **31.** fresh water surrounding a red blood cell  **34.** packages substances to be exported from the cell  **35.** when the chromosomes first become visible durning mitosis  **37.** complement of ATGCTA  **38.** type of graph you would make for a data set expressed in percentages |