

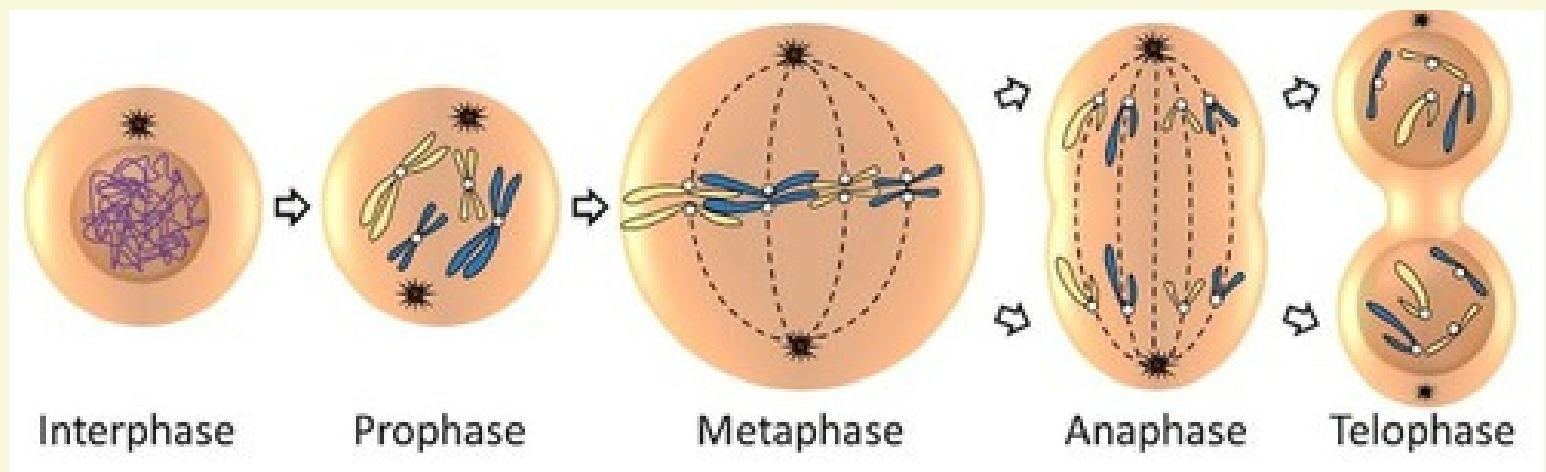


Biology Department Updates

The Official Ike 9 Science Department Weekly Newsletter

Hello everyone!

This week, we are learning about the **Cell Cycle and Mitosis**. The Cell Cycle is a series of events that takes place in a cell as it grows and divides. A cell spends most of its time in Interphase, and during this time it grows, replicates its chromosomes, and prepares for cell division. When the cell leaves Interphase, undergoes Mitosis, and completes its division. The resulting cells, known as daughter cells, each enter their own interphase and begin a new round of the cell cycle. This is also how the body regulate and most of the time eliminate mutations and **cancer cells**.



Featured Organism

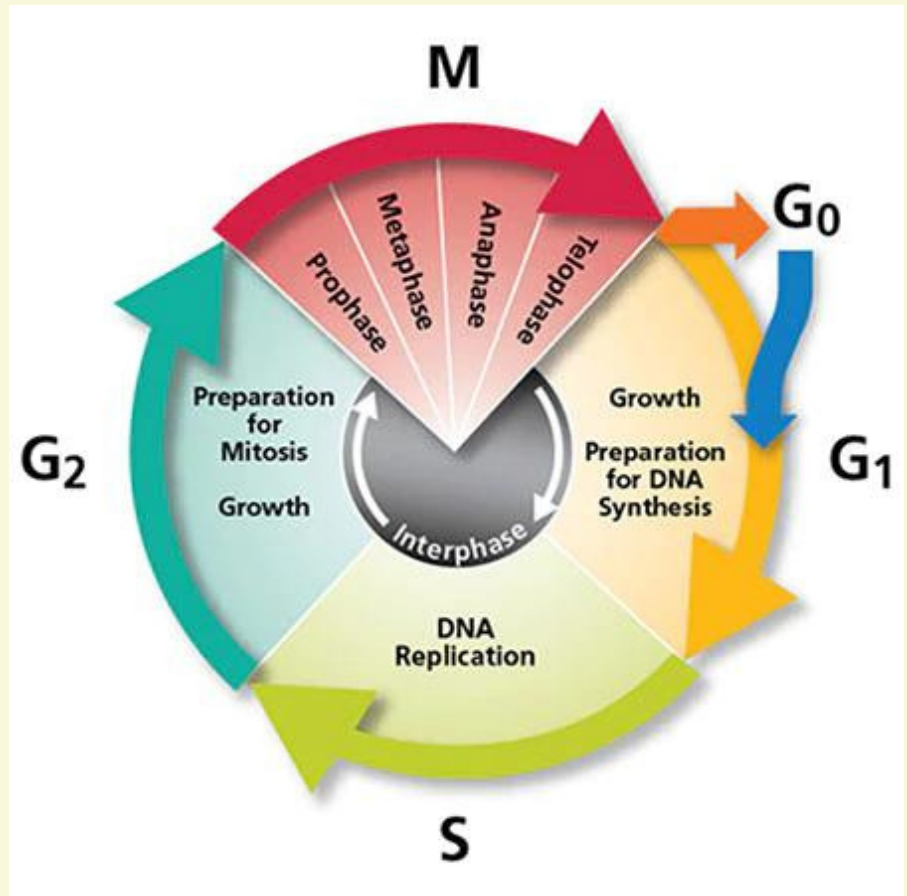
THE WILD TURKEY



The Wild Turkey is the largest North American gamebird, weighing up to 20 pounds, with a wingspan of up to five feet. It's colorful, too — decked out in iridescent feathers of bronze, gold, and green, accented by colorful skin ornamentation and spurred legs. The Wild Turkey is a fast runner and strong short-distance flyer, with excellent vision and an intelligent, wary nature that makes it elusive quarry. The wild turkey species is the ancestor of the domestic turkey, which was domesticated approximately 2,000 years ago.

FUN FACTS ABOUT THE CELL CYCLE

- For a typical rapidly proliferating human cell (like skin cells) with a total cycle time of 24 hours, the G1 phase might last about 11 hours, S phase about 8 hours, G2 about 4 hours, and M about 1 hour.
- The resulting daughter cells are identical clones.
- Mutated DNA gets repaired before it enters the S phase
- Cell division is necessary for the growth of organisms, repair of damaged tissues, healing and regeneration, and reproduction.



LET'S
CELEBRATE

happy
thanksgiving



**Alondra
Galera is
House of
Tulum
Student of
the Month!**



Great Science Pioneers



Dr. Kamal Ranadive, was born in 1917 in Pune, India. Her father's encouragement to pursue a medical education inspired Ranadive to excel academically, but she found her calling in biology instead. Ranadive is best known for her groundbreaking cancer research and devotion to creating a more equitable society through science and education.

**Contact us if you would like
to be featured in our
newsletter.**

kochoa@aldineisd.org
senero@aldineisd.org