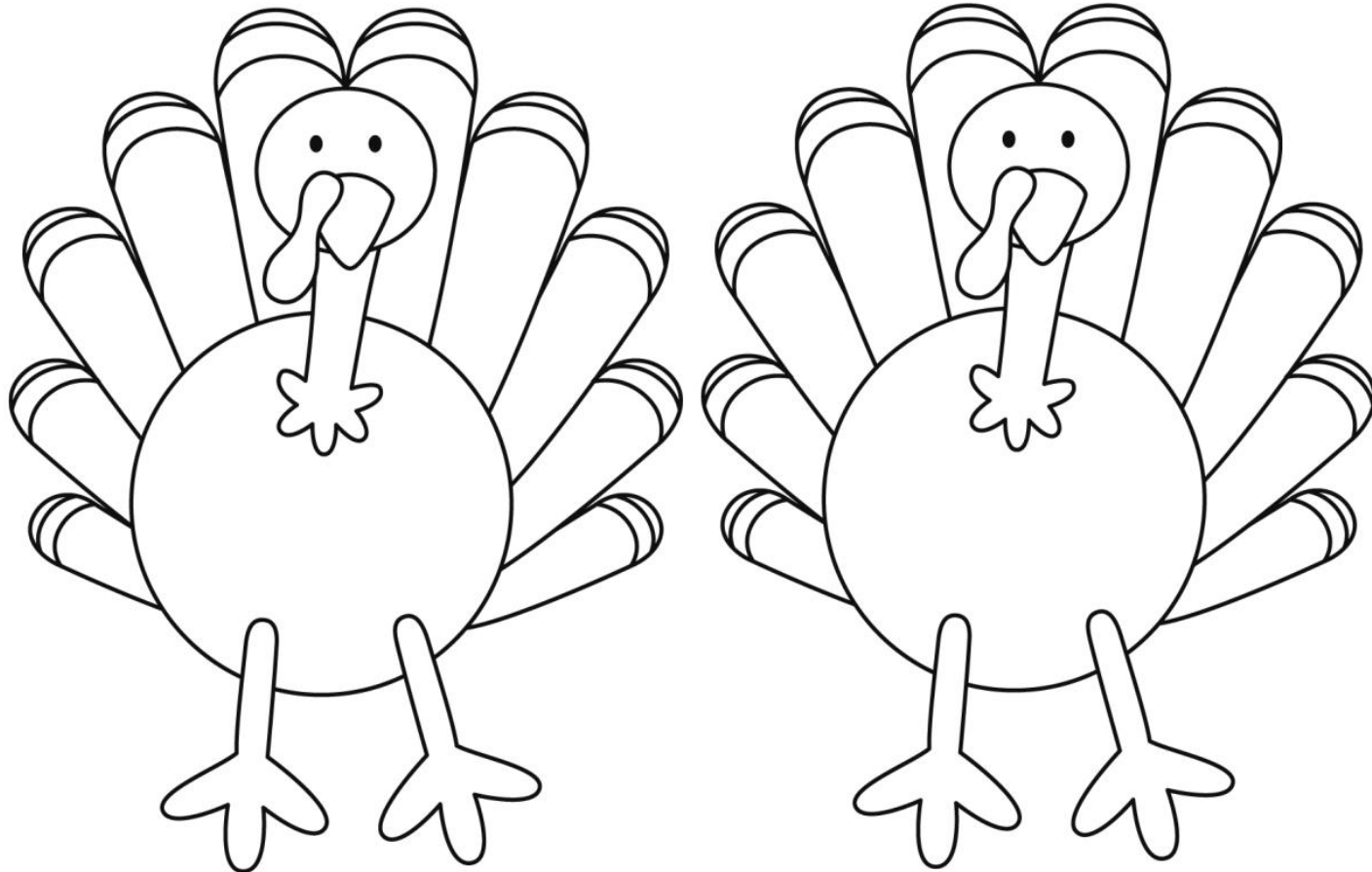




“Tex Turkey’s Great Escape”

Tex Turkey is in trouble... The kind of trouble where you end up on the Thanksgiving table if you cannot outrun the farmer. Design a balloon-powered engine to help Tex Turkey in his Great Escape! Test different types of balloons, different straws, and different engine prototypes to explore the forces involved in motion.



Materials: Tex Turkey Template, Balloons of different shapes/sizes, straws, fishing line, tape, feathers (optional)

- 1) Think about your turkey engine prototype. What do you think would be a good design? Why?
- 2) Your turkey will have to travel along a fishing line stretched between two objects (such as two chairs). How will you attach the turkey to the engine and the engine to the fishing line so it can slide from one end to the other?
- 3) Test out different types of balloons (long balloon, large balloon, small balloon) and different types of straws (small straw, large smoothie straw, coffee stirrer, etc.)
- 4) Attach your final engine design to your turkey and attach your turkey to the fishing line.
- 5) Test out your prototype. How can you improve it?
- 6) Think about how what you’ve learned about your turkey engine might apply to aircrafts and how they fly.