

Week	Mission Prep for Meeting on Monday
1 8/24	☐ Read and bring to class the Robotics & Engineering Club Syllabus. ☐ Bring signed copy of syllabus - a <i>MUST HAVE before you can participate.</i> ☐ Bring: A picture, drawing, or short description of your favorite robot or engineering marvel. ☐ Mission Question: What problem does this robot or engineering marvel solve?
2 8/31	☐ Research one real-world robot (medical, military, agriculture, underwater, manufacturing, etc.). ☐ Bring: An article or your own list of benefits and possible concerns related to the use of robots. ☐ Mission Question: Just because we can build a robot to perform a task, does that mean we should?
3 9/7	Labor Day - No Class
4 9/14	☐ Learn what an algorithm is. ☐ Create: A step-by-step set of instructions for a simple task (making a sandwich, brushing your teeth, tying a shoe, etc.). ☐ Mission Question: Which parts of an everyday task require judgment rather than instructions?
5 9/21	☐ Research a robot that moves using wheels, tracks, legs, or propellers. ☐ Bring: A picture, drawing, or short description of the robot with its movement system labeled. ☐ Mission Question: Why is this movement system best for the robot's environment?
6 9/28	☐ Learn about loops and repeated actions. ☐ Design: A blueprint or concept drawing of a robot that performs one repetitive job (mowing, cleaning, feeding pets, etc.). ☐ Mission Question: What condition should cause the robot to begin or end its loop?
7 10/5	☐ Learn or watch a short video about engineers testing prototypes. ☐ Build or Draw: A simple robotic prototype or blueprint that solves a small problem. ☐ Mission Question: How could you make the design stronger, safer, or more accurate?
8 10/12	☐ Find three different sensors in your home, car, or electronics. ☐ Design: A robot for a specific mission and label at least three sensors it would need. ☐ Mission Question: Which decisions should require confirmation from more than one sensor?