“Hydroponics vs. Conventional Gardening,” is designed to find a more productive type of gardening. High populated areas, such as Denver, do not have land to grow conventional gardens. Our project will compare hydroponics to conventional gardening. We prepared the radishes in hydroponics conditions, by placing two radish seeds in each Rock wool growth media in the top of a 591 mL soda bottle that was cut 1/3 from the top. Next, we placed the top upside down in the bottom of the remaining soda bottle, which held 210 mL of tap water. Then, we mixed ½ tablespoon of Miracle Grow with the tap water. Finally, we attached a wick to the Rock wool hanging through the bottle opening with the cap on and into the water. After preparing the hydroponics radishes, we set up the conventional radishes by placing two radish seeds in each Peat Pellets growth media in a 7.5 centimeters plastic potting container placed on an aluminum pie pan. We maintained a depth of water of 2-3 mL. After seven days, our results concluded that our hypothesis (conventional gardening is more effective than hydroponics.), was supported. The conventional radishes’ leaves were taller than the hydroponics radishes. Our hydroponics radishes grew at a 20% sprouting rate. Our conventional radishes had an 80% sprouting rate. Conventional radishes leaves grew 5.84 centimeters taller than hydroponics’. Therefore, conventional plants have a better chance of spouting and growing than hydroponics. Hydroponics is still a viable way of gardening when land is not available; however, the success rate is lacking in comparison to conventional gardening.