Creating the New ANKH

Eid, Adham (School: Obour STEM School)
Gouda, Ahmed (School: Obour STEM School)

The scarcity of food and water is one of the challenges that pose a serious threat to the life and continuity of future generations, as well as its great impact on current generations. The solution that was chosen was to collect water from the air, after conducting research the best solution that would achieve the highest efficiency possible was to create a composite that would harvest atmospheric water, it was found that the best components for the composite would be pectin, as a supporting material, nano aluminum oxide and graphene as a water absorber, we obtained about 250 ml of water after letting this composite remain for 14 hours from sunset to sunrise when the humidity is about 75% in arid seawater area.

Awards Won: