

Application of water boosted Rocket to Education - Exceptionally Excellent tool -

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Water boosted rocket is a simple pressurized plastic bottle filled with water. The material for the rocket are easily obtained except the nozzle, which can release the rock system at any time. It is easily handled after brief instruction. Complexity of the water rocket can vary, depending on the age, from small kids to master course students of University. For small children, it can be used as a tool for better parent ship. For the elementary school children, it can be used to trigger the curiosity, cultivate team work, train the creativity. For Junior high school students, students can learn action-reaction, while enjoying. Procedure until real rocket launch is simulated by the water boosted rocket. For senior high school students, the orbit can be calculated without aerodynamic effect. But the calculation in this case can be done by assuming that thrust and weight are constant. For the university student, trajectory calculation becomes more complex. The trajectory cannot be calculated analytically. Accordingly we need to rely on computer. From engineering point, various kinds of instruments such as magnetometer, accelerometer, camera and telemeter transmitter can be accommodated. Non-gravity experiment can be repeated. It can be also used during the development stage of the real space instruments, such as to check the mechanism of the tether extension in space. For adults, the water boosted rocket can be used to keep them young. Regarding the business, it will be used for the entertainment such as wedding party. The paper describes other application as well, and stress that water boosted can be more accommodated as one of the best educational tool in all generations.