Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Water Rocket Project

**Who:** You in a group of 3-4 people

**What:** Your group are going to design a water bottle rocket

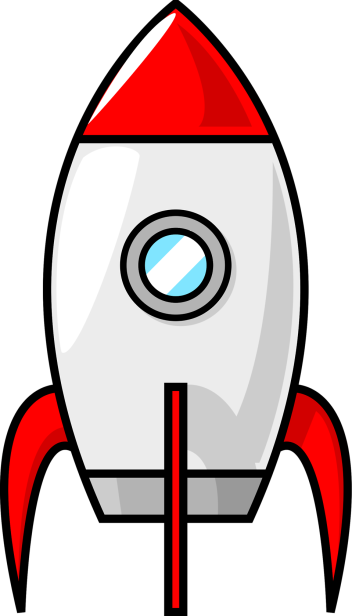
* You are going to research how does a water rocket work
* You are going to make a water bottle rocket
* You are going to implement 4 ways to improve your rocket and give proper scientific reasoning why
* Finally you are going to launch your rocket

**When:** This project will be due NEXT WEEK on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Why:** This is an assessment that is worth 40% of the module

**Marking Key:**

|  |  |  |
| --- | --- | --- |
| **Theoretical Component** | | |
|  | Total Marks | Your Marks |
| Explanation on how does a water bottle rocket fly | 2 |  |
| Explanation using **Scientific** reasoning why the 4 changes you made to your rocket will improve it | Four suitable changes  (0.5 each 2 max)  Explanation for each change  ( 1 mark 4 max) |  |
| **Practical Component** | | |
| How you actually implement your 4 changes to your actual rocket | 2 |  |
| **Total** | 10 |  |



How does a Water Rocket work?  
  
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What are four things you can do to make the rocket fly further? Explain with **scientific** reasoning

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
     
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3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
     
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4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
     
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Draw below what your rocket design is going to look like (with the 4 changes)