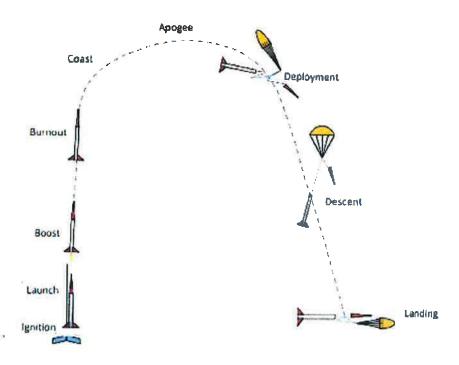
STEM Club Lent 2019 - UKRoC

National flight: No. 2	Date:
Height reached:	
Flight time:	
Feedback: Positives and Negatives	
•	
What have we learnt?	
	To an almost unco
Date:	Team signatures:
SMART target:	

Taken from Or Philip Clarsworts's Sufts give

2. Model Rocket Basics

How Model Rockets Work



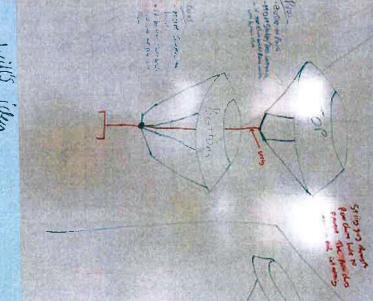
Flight Profile

Figure 7? explains some common rocketry terms for the phases of an ideal flight. At the start of a flight the rocket is mounted on a launch pad. The flight starts with IGNITION, in which the motor is electrically ignited. The rocket accelerates up the launch rod, gaming speed until it leaves the end of the rod. The motor continues

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EPSOM



will's idea

WWW. BASCHLOST BOTTON CONTROL

Will Juchisons idea (chosen)

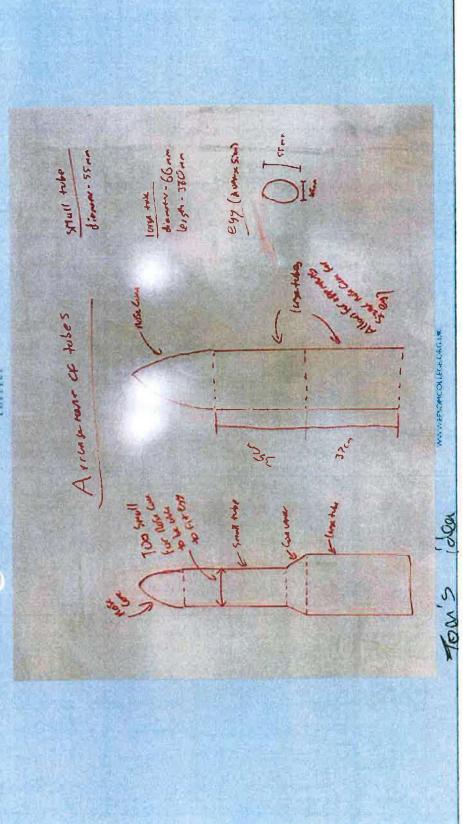
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~ Soon TOM'S design 53c4 3 EPS C Geolius to Step Plu. ARX's design Producto.

Final instal drisny

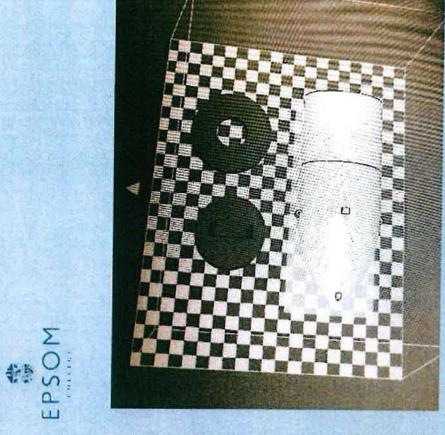
Final Univid designer

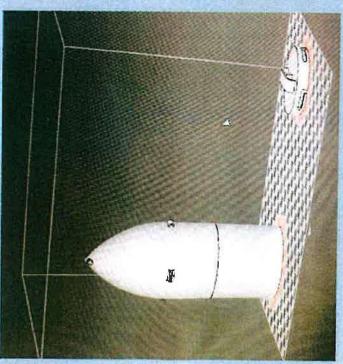
Seff 's design WAWARSONCOLLEGE ORGUN **EPSOM** Will's design

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Design feature:

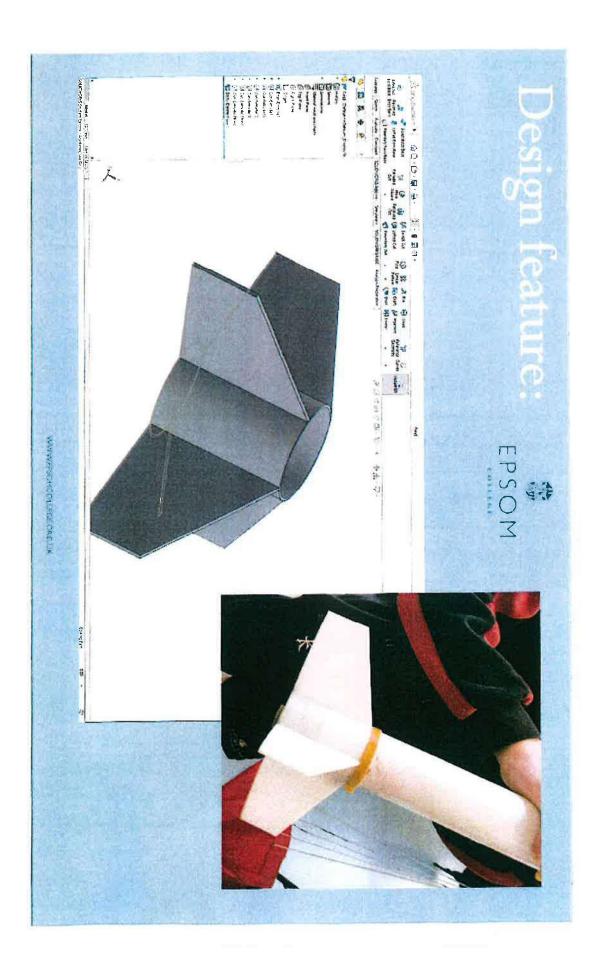
3D printed nose cone





When the Control of the Control

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USed Videols to Recent flight and thinks

Test flight:



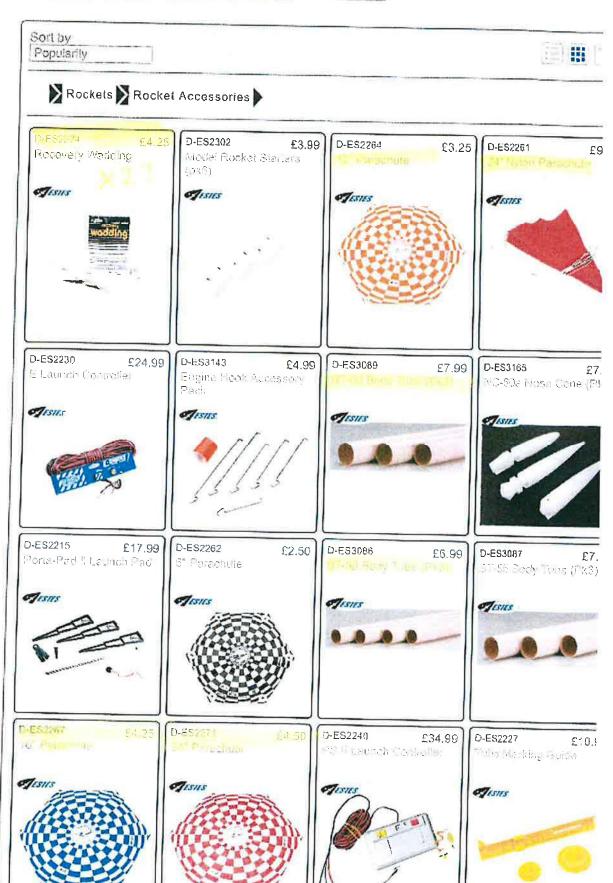


UKRoC Rules 2019

- SAFETY: All rockets must be built and flown in accordance with the UKRoC Best Practices document.
 Rockets flown at the National Finals must have previously flown safely and successfully. Rockets will
 be inspected before launch and observed during flight by a UKRoC official, whose judgment about the
 safety of the flight and with these rules will be final. Teams are encouraged to consult with designated
 UKRoC officials well before the fly-off to resolve any questions about design, safety, or these rules.
- 2. TEAMS: The application for a team must come from a single school or a single non-profit youth or educational organization. There is no limit to the number of teams that may be entered from any single school or organization, but no more than three teams containing students who attend the same school or who are members of the same organization, regardless of whether the teams are sponsored by that school or organization, can be invited to attend the National Finals. Team members must be students who are aged 11 to 18. Teams may have members from other schools or other organizations and may obtain financing from any source, not limited to their sponsoring organization. Teams must be supervised by an adult approved by the head of the sponsoring school, or by an officially-appointed adult leader of their sponsoring organization. Minimum team size is three students and maximum is ten students. Each student member must make a significant contribution to the designing, building, and/or launching of the team's entry. No part of any of these activities for a rocket used in a qualification flight or at the Finals may be done by any adult, by a company (except by the sale of standard off-the-shelf components available to the general public, but not kits or designs for the event), or by any person not a student on that team. No student may be on more than one team. The supervising teacher/adult may supervise more than one team.
- 3. ROCKET REQUIREMENTS: Rockets must not exceed 650 grams gross weight at lift off. The egg payload portion of the rocket tube must be large enough to contain an egg of up to 45 millimetres in diameter. The overall length of the rocket must be no less than 650 millimetres as measured from the lowest to the highest points of the airframe structure in launch configuration. The portion of the rocket containing the egg payload and the altimeter must separate from the rest of the rocket in the air and must descend separately under at least two parachutes that are the same shape and are within 50 millimetres (2.0 inches) of the same diameter. The rest of the rocket must recover safely under any deployed recovery system. They must have only one stage. They must be powered only by commercially-made model rocket motors of "F" or lower power class that are listed on the UKRoC Approved Motor List posted on the UKRoC website. Any number of motors may be used, but the motors used must not contain a combined total of more than 80 Newton-seconds of total impulse based on the total impulse ratings in the UKRoC list. Motors must be retained in the rocket during flight and at ejection by a positive mechanical means (clip, hook, screw-on cap, etc.) and not retained simply by friction fit in the motor mounting tube. Rockets must not contain any pyrotechnic charges except those provided as part of the basic commercially-made rocket motor used for the flight, and these must be used only in the manner prescribed in the instructions for that motor.

LOGIC RC

Customer



Product Code: 028364

