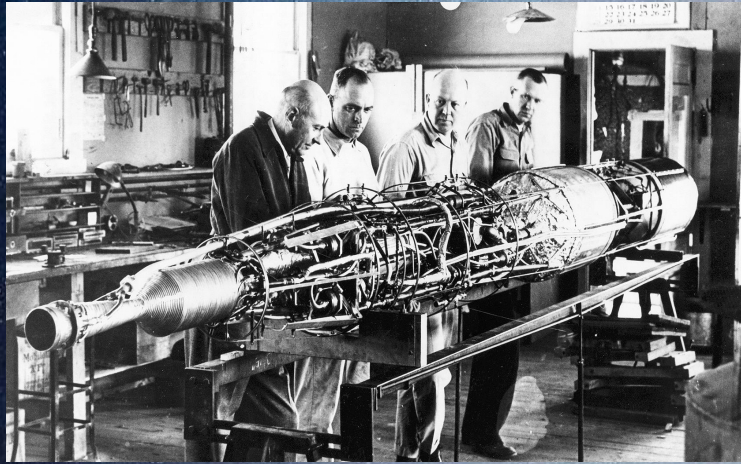
A rocket is shown launching from the Earth's surface on the left side of the frame. The rocket is white with orange and black accents, and it is surrounded by a large, billowing cloud of white and orange smoke and fire. The background is a deep blue space filled with stars and a few streaks of light. In the upper right corner, the Earth is visible, showing its blue oceans and green continents, with the Moon partially visible next to it.

Презентация на тему:
«Как мы построили ракету».

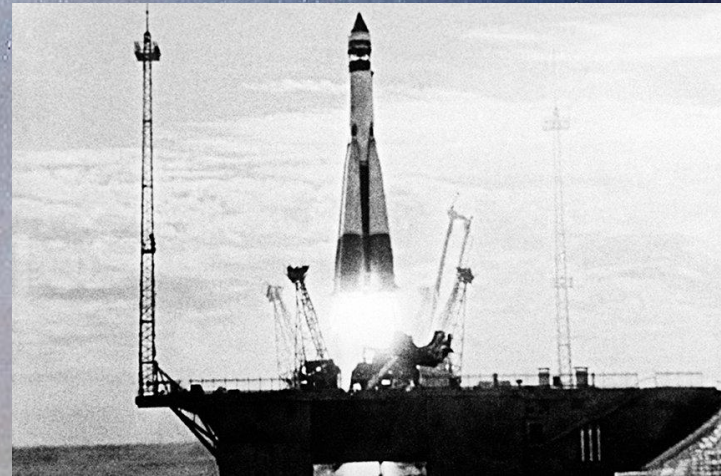
Состав команды



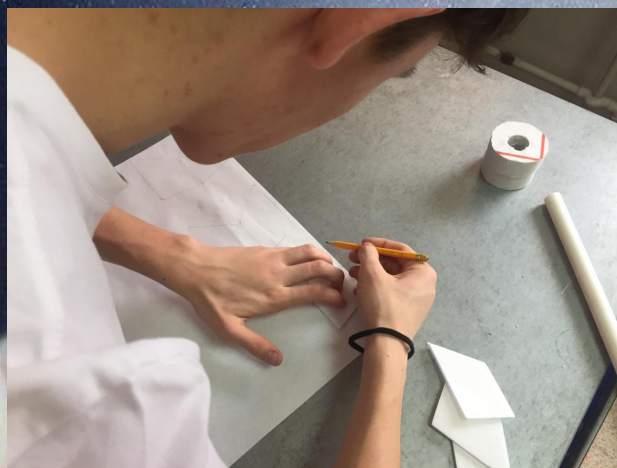
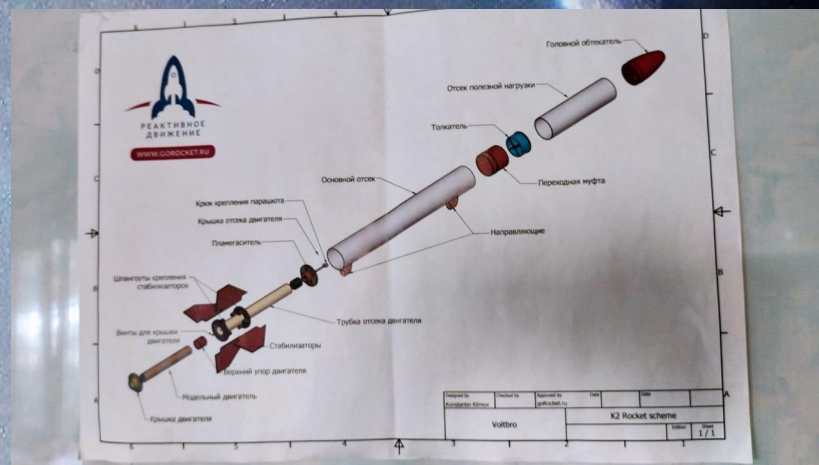
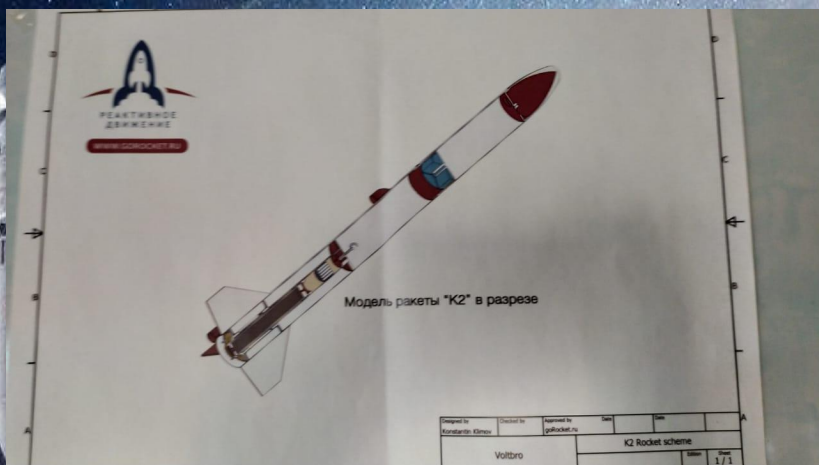
Немного об истории ракетостроения.



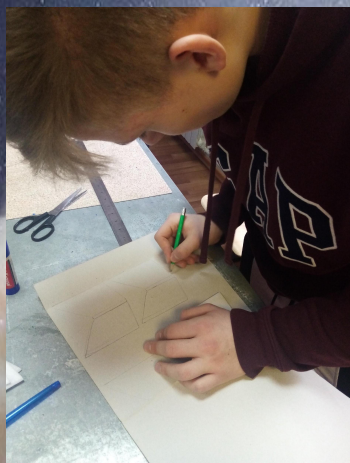
Сергей Королёв и легендарная Р-7



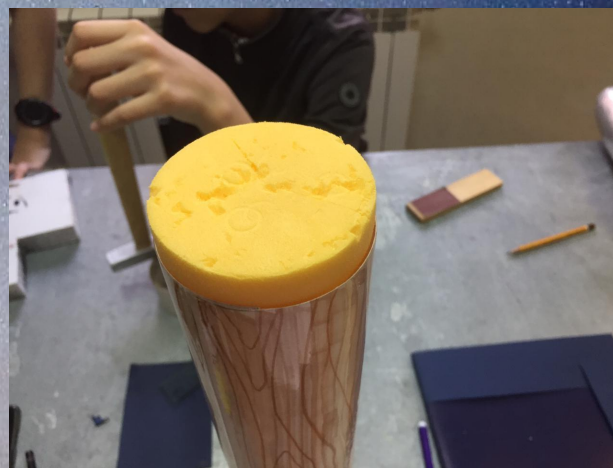
Первые 3 дня занятий.



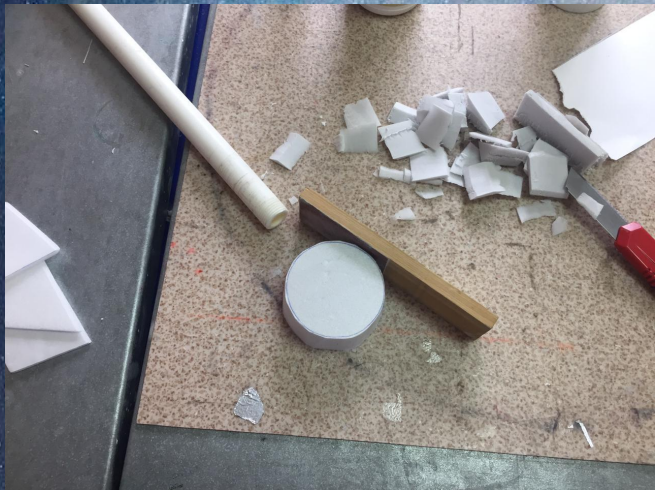
День 4



День 5



День 6



День 7



День 8



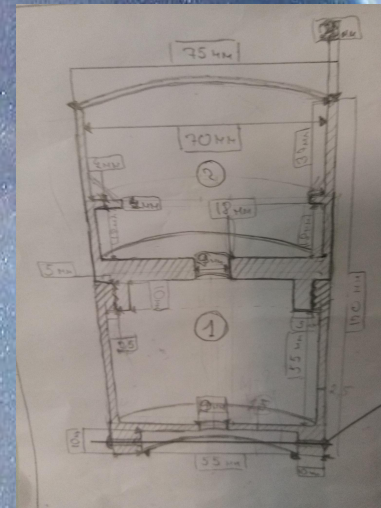
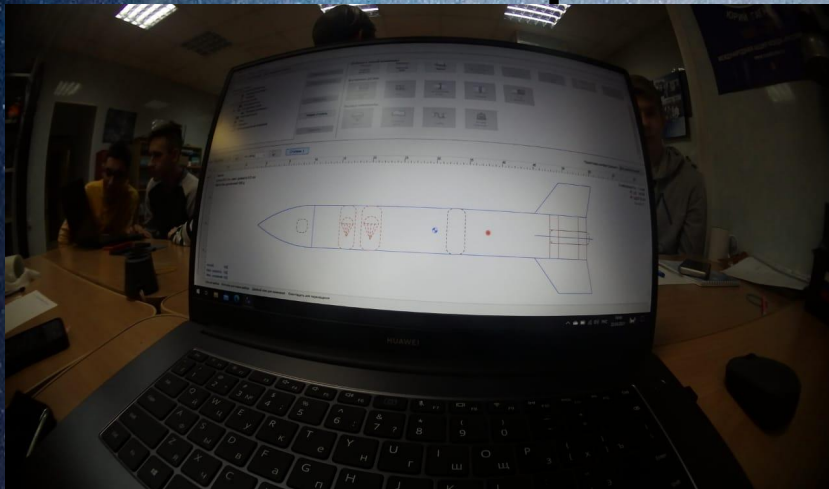
День 9



День 10



Подробнее про цель запуска ракеты.



Расчет парашюта

Температура	$R_{\text{л}}$, кг/м ²
+30	1,165
+30	1,164
+25	1,184
+20	1,204
+15	1,225
+10	1,247
+5	1,269
0	1,292
-5	1,316
-10	1,342
-15	1,365
-20	1,403
-25	1,453
-30	1,515

Площадь парашюта $S = 2 \text{ м}^2$

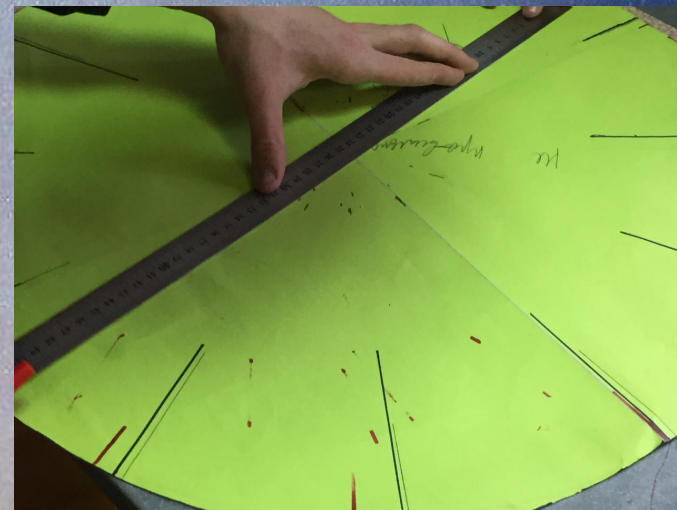
$S = C_x \cdot R_{\text{л}} \cdot V^2$

$S = \pi \cdot (R_{\text{л}})^2$

$R_{\text{л}} = R_{\text{л}} / 15$

$C_x = 0,75$ - для плоского парашюта
 $C_x = 1,3$ - для купольного парашюта
Длина строп - 2,4 м
 $g = 9,81 \text{ м/с}^2$

Волтбра



Результаты запуска ракеты



A rocket is shown launching from the bottom left, ascending into a vast space filled with stars and a nebula. In the upper right, the Earth and the Moon are visible. The overall scene is a dramatic space launch.

Спасибо за внимание!

Сделано командой «Poultry».