

"Tree Arrangement Project In School Environment"

Sharipov Biloliddin

Biology teacher of Nurafshon presidential school
Email: biloliddin_1994@mail.ru

Aziza Tojiboyeva

11-grade student of Nurafshon presidential school
Email: azizatojiboyeva0107@gmail.com

Abdumalikova Dilobar

11-grade student of Nurafshon presidential school
Email: dilobarabdumalikova18@gmail.com

Xusanov Xudoyberdi

11-grade student of Nurafshon presidential school
Email: xusanovxudoyberdi10@gmail.com

Abstract:

This research proposal aims to find whether Nurafshan Presidential School lacks oxygen or has enough while focusing deep research on the school and the average volume of produced oxygen. By exploring their effects on academic performance, mental well-being, and environmental awareness, this study provides valuable insights for School administration.

Key words: Oxygen, Carbon dioxide, tree, environment, breathing, academic performance

Introduction:

Trees play a vital role in our environment, providing multiple benefits such as air purification, temperature regulation, and aesthetic enhancement. However, their impact on educational settings, particularly in schools, has received comparatively less attention in research literature. The goal of this study is to fill the gap between the lacks of oxygen where it's acquired by planting new trees.

Objectives:

1. To assess the impact of trees on academic performance by analyzing students' test scores and grades in schools with and without tree presence.
2. To investigate the association between the presence of trees in school and students' mental well-being through surveys and interviews.
3. To explore the influence of trees on environmental awareness and attitudes among students by examining their knowledge, attitudes, and behaviors towards the environment.

Methodology and Research proposal:

Use random sampling. Analyzing the Data: use plant spacing calculator^{1 2}, use formula $A=a^2$ to find total area. By the measurements, we found that the area of the school's garden is 7000 square meters and

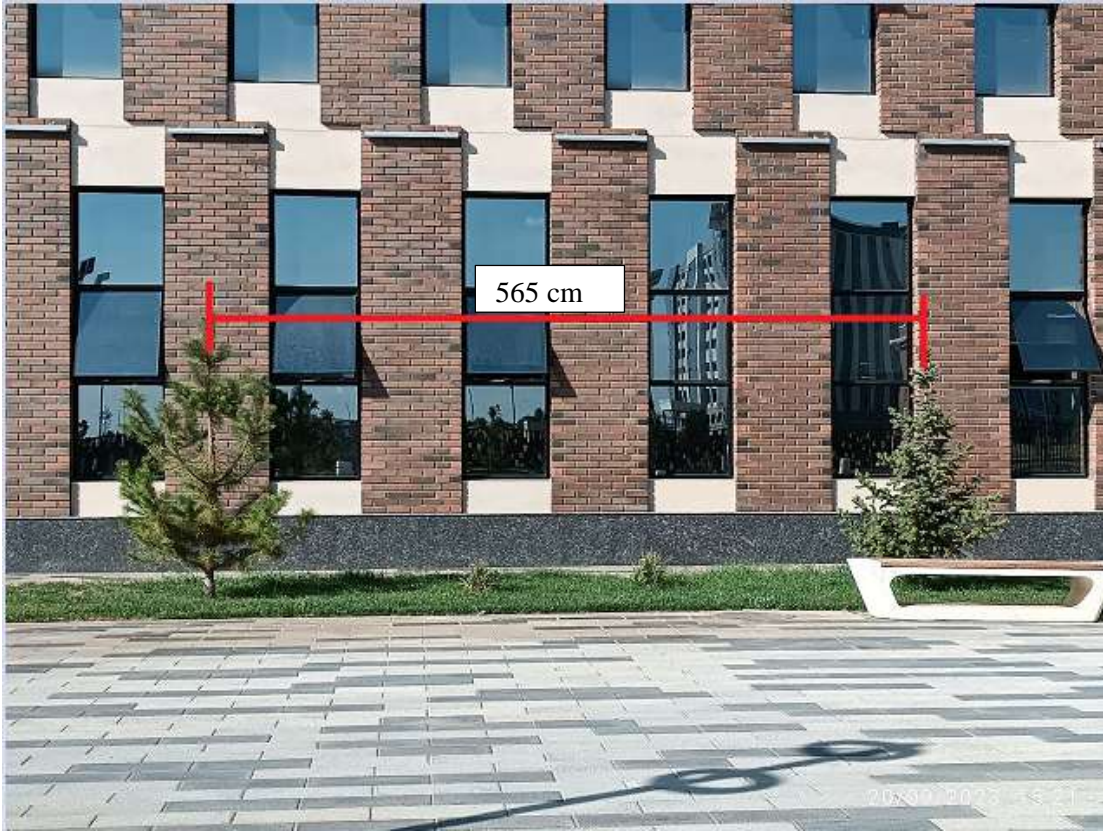
amount of trees is 195. If we look at the standard number of trees for one person we find more than 3. In our school, we have 169 students and staff, which are more than 200. So, we have a lack of trees per person and we must plant more than 200 plants to equate ratio.

This research proposal aims to contribute to the understanding of how strategic tree arrangement can create personalized oxygen-rich environments. With the help of this investigation, we found out a way of arranging trees properly in school's planting area.

Measurements of random plants

<u>No</u>	<u>Length (cm)</u>	<u>Width (cm)</u>	<u>Spacing (cm)</u>
1	210	143	337
2	185	65	274
3	240	85	228
4	315	100	227
5	188	100	297
6	264	178	520
7	158	37	410
8	170	25	290
9	240	97	305
10	167	110	285
11	120	42	329
12	43	11	510
13	49	34	230
14	44.5	38	480
15	42	31	320
16	72	33	335
17	68	50	237
18	32	27	297
19	73	34	218
20	36	31	328
21	41	26	295
22	32	38	374
23	54	42	455
24	56	42	396
25	53	17	277
26	31	23	405
27	29	21	343
28	92	81	426
29	34	14	496
30	35	19	274
Avarage	105.8	53.1	339.8

Current plant spacing:



Calculations:

- 1) Area of school= $484 \times 10^4 \text{ cm}^2$;
- 2) Planting Area = $5.47 \times 10^4 \text{ cm}^2$;
- 3) Density= $0.0866 \times 10^4 \text{ cm}^2$;
- 4) Desired Density = $2.778 \times 10^4 \text{ cm}^2$;
- 5) Required number of plants= 20

Conclusion:

By undertaking this research, our goal is to remove the lack of oxygen and provide healthy life on school campus for our students. If we increase the number of trees in the school environment, we will get several benefits. For example, children can breathe enough oxygen and this has a positive effect on their circulatory system. There are significant positive changes in their mental activity sleepiness is reduced. They feel refreshed and study efficiency increases.

References:

1. <https://classygroundcovers.com/site/page?view=plantCalculator>
2. <https://www.inchcalculator.com/plant-and-flower-calculator/>