
Growth Results

Amount of Light:

Light Duration (hours)	Final Plant Height (cm)		
	Bean 1	Bean 2	Bean 3
0	41	7	31
6	28	23	14
12	19	16	9
18	22	20	13
24	21	19	-

 = Unhealthy looking plants

Amount of Water:

Water Quantity (ml)	Final Plant Height (cm)		
	Bean 1	Bean 2	Bean 3
0	-	-	-
10	4	1	-
20	24	-	-
30	16	12	-
40	27	21	-

Colour of Light:

Light Colour	Final Plant Height (cm)		
	Bean 1	Bean 2	Bean 3
Red	28	22	20
Green	18	14	-
Blue	23	20	20
Purple	24	17	18
White	19	16	19

 = Unhealthy looking plants

Amount of Soil:

Soil Quantity (% of pot)	Final Plant Height (cm)		
	Bean 1	Bean 2	Bean 3
0	0.2	0.1	0.1
33	20	19	9
66	24	-	-
100	5	0.1	-

Temperature:

Temperature (°C)	Final Plant Height (cm)		
	Bean 1	Bean 2	Bean 3
Room 1	2	0.2	-
Room 2	4	1	-
Room 3	16	11	8

Sensor Results

Light Sensor Readings:

	Week 1					Week 2					Week 3					Week 4					Week 5				
	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri
White LED	77	76	77	77	76	72	73	73	72	74	72	73	77	78	76	77	78	77	76	73	74	73	71	73	73
Red LED	20	18	18	19	20	18	22	18	19	18	20	19	18	18	22	18	18	19	20	19	22	18	19	18	18
Green LED	22	22	21	20	21	22	22	22	22	22	21	21	21	22	22	22	21	20	21	21	22	22	22	22	21
Blue LED	21	21	21	22	22	21	22	21	20	21	22	22	22	21	22	21	21	22	22	22	22	21	20	21	21
Purple LED	34	34	40	39	42	43	43	43	44	43	42	43	42	43	39	34	40	39	42	43	43	43	44	43	43

All readings taken at 12pm. These results are for the 'Amount of Light' (using white LEDs) and 'Colour of Light' experiments.

Temperature Readings (°C):

	Week 1					Week 2					Week 3					Week 4					Week 5				
	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri
Room 1	14.9	15	14.9	13.9	13.4	12.7	12.4	12.6	13.5	12.9	12.6	13.6	13	13.1	13.3	13.9	14.3	14.7	14.9	15	14.6	15.2	15.2	14.7	14.7
Room 2	18.2	17.4	17.2	16.7	16.8	17.1	17	17	16.5	16.9	16.8	17.5	17.8	17	17.8	17.9	17.3	17.7	17.7	17.3	17.5	18.2	17	17.7	17.7
Room 3	19.8	20.3	20.1	20.2	19.7	20.6	21.2	19.8	19.6	20	21.5	21.1	20.6	20.9	20.9	21.3	20.7	20.9	21	20.6	21.4	23.3	20.6	22	23.2

All readings taken at 12pm. These results are for the 'Temperature' experiment. Room 2 used for all other experiments.

Soil Moisture Readings:

	Week 1					Week 2					Week 3					Week 4					Week 5					
	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri	
0ml	668	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023
10ml	660	976	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023
20ml	668	959	967	968	968	969	966	968	971	971	973	974	974	977	976	980	977	971	970	970	992	992	996	994	995	
30ml	664	800	807	804	819	860	868	883	887	881	891	898	892	896	889	896	892	896	889	899	893	906	907	895	902	
40ml	667	695	724	716	740	731	732	737	743	749	739	739	753	760	754	744	753	740	748	749	755	746	751	751	755	

All readings taken at 12pm. The higher the sensor reading, the drier the soil.

Humidity Readings (%):

	Week 1					Week 2					Week 3					Week 4					Week 5				
	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri	Mon	Tues	Weds	Thurs	Fri
Room 1	70.1	71.7	72.2	69	68.8	64.6	69.8	72.2	68	70.7	70.7	70.4	67.2	67.7	66.4	66.4	71.2	70.7	71	71	70.2	70.7	72.6	71.3	68.6
Room 2	66.6	67.3	67.7	66.7	61.6	49.7	61.8	63.6	61.7	56.3	60.6	59.5	59	58	58.2	60	65.2	64.9	66.3	65.4	63.3	64.2	68.8	65.5	58.3
Room 3	47	46.38	48	48.7	41.4	41.2	40.7	41.7	41.9	38.5	38.1	37.4	36.4	38.8	35.1	36.6	42.3	40.6	41	42.5	39.6	38.4	45.1	42.5	30.8

All readings taken at 12pm. Room 2 was the one used for all experiments.