

Fun Activities Using Technology and Gardening

Ablenet Webinar – Aug. 14, 2019

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Fun Gardening Activities for Students and Adults with Developmental Disabilities

- Growing Seedlings from Seeds
- Growing early Vegetables for a Salad
- Growing late Vegetables for Salsa
- Growing flowering Plants
- Tallest Sunflower Contest

Incorporating Science and Technology

- Gardening & Plant Growth
- Food Preparation and Nutrition
- Measuring and Counting
- Using Computers and assistive Devices for Data Entry
- Learning about Spreadsheets, Bar Graphs & Pictographs

Water and Nutrients for Seedlings



Use Ruler to Measure Height of Sunflower Seedling

How tall is this seedling?



Measuring and Recording Seedling Data

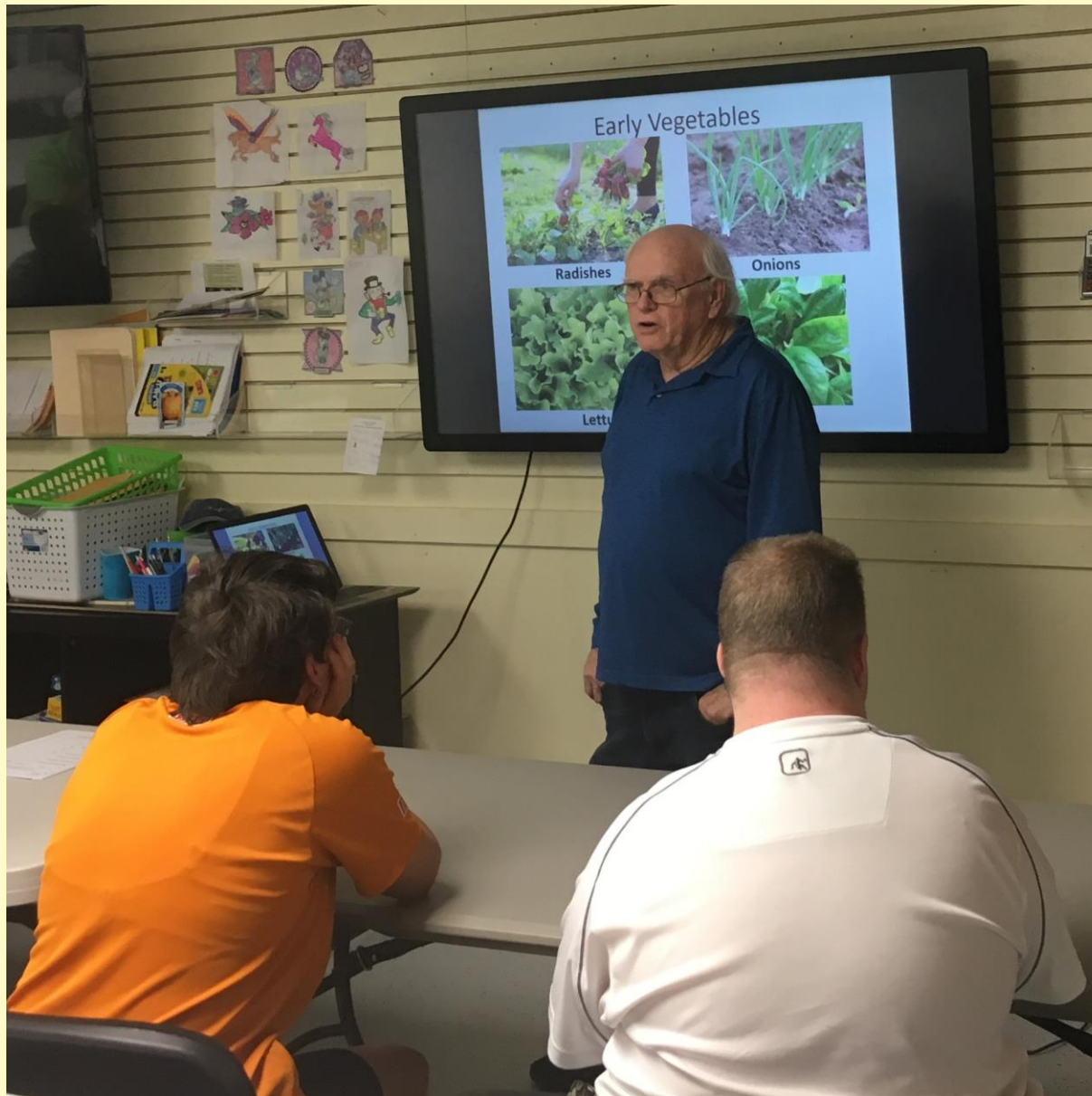
Measure Height and Count Leaves for each Seedling

PLANT NO.	HEIGHT (inch)	NO. OF LEAVES
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Tomato Plants ready for the Garden



Instruction on Vegetable Growing with InFocus Smart Board



Planting early Salad Vegetables



Observing and Recording Garden Plants



Marigolds started from Seeds



Extra Plants to take Home



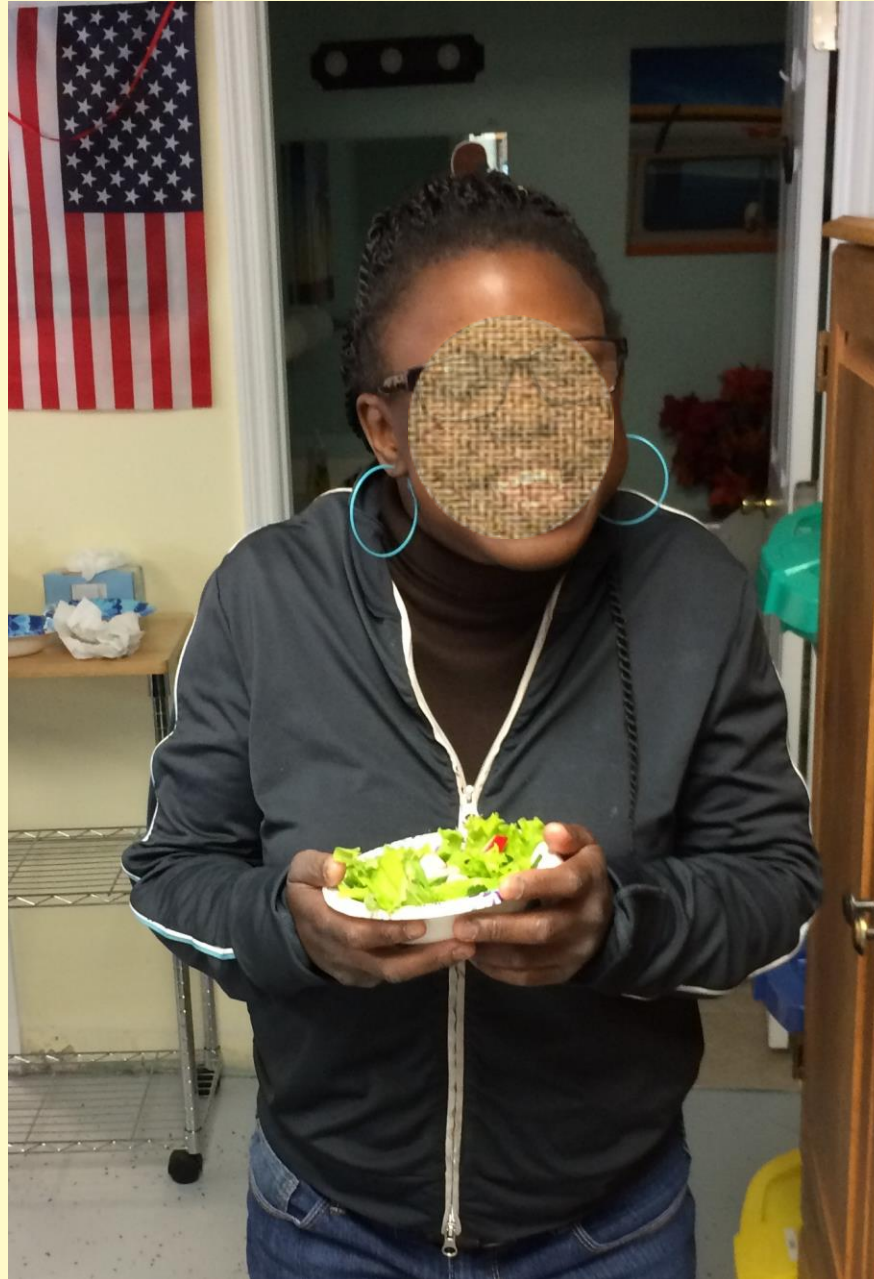
Pictograph – Visually Compares



Harvesting Salad Vegetables from Garden



Nutrition: Fresh Salad from Garden



Salad Calorie Counter – Excel Spreadsheet

Name:

How many Calories will my Salad have?

Item	Calories Each	Enter How Many	Total Calories
Bowl Lettuce & Spinach	10	1	10
Tablespoon Radishes	1	2	2
Tablespoon Onions	4	0	0
Tablespoon Dressing	30	2	60
Crouton	10	4	40
Tablespoon Bacon Bits	30	1	30
Tablespoon Cheese	25	2	50
Grape	2	4	8
Total Calories in My Salad =			200

Food Preparation: Preparing Garden Vegetables for Salsa



Food Preparation: Salsa Vegetables – Ready to Season and Mix



Enjoying fresh Salsa



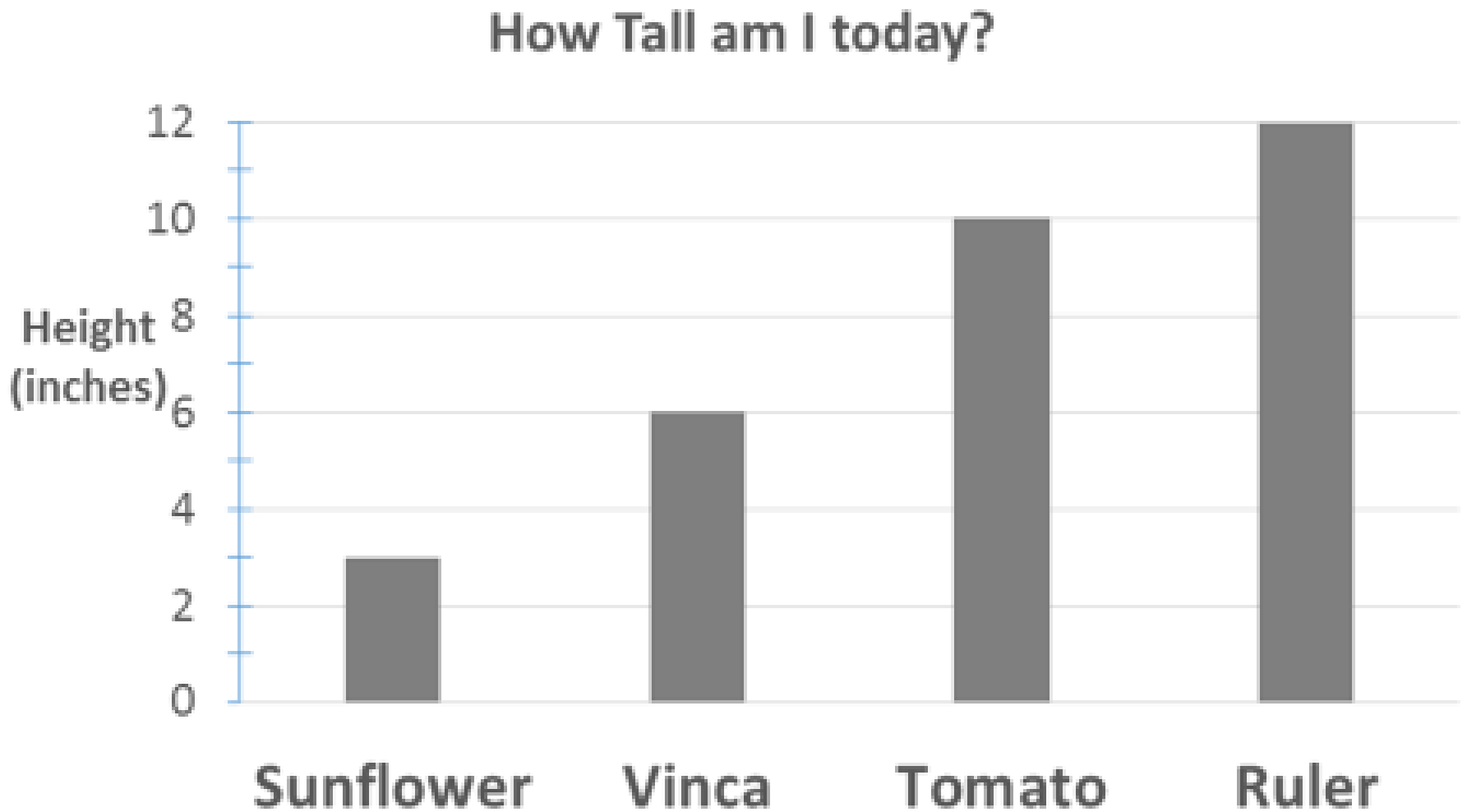
Sunflower Growing Contest

- Students plant Sunflower Seeds (Mammoth Russian)
- After 2 weeks plants are thinned and one is assigned to each students
- Height is measured every 2 weeks, recorded and entered into Excel spreadsheet by students
- Bar Graph is created in Excel to compare heights
- Each student gets a certificate and prizes are awarded (1st, 2nd & 3rd tallest, shortest, first head, largest head, ?)

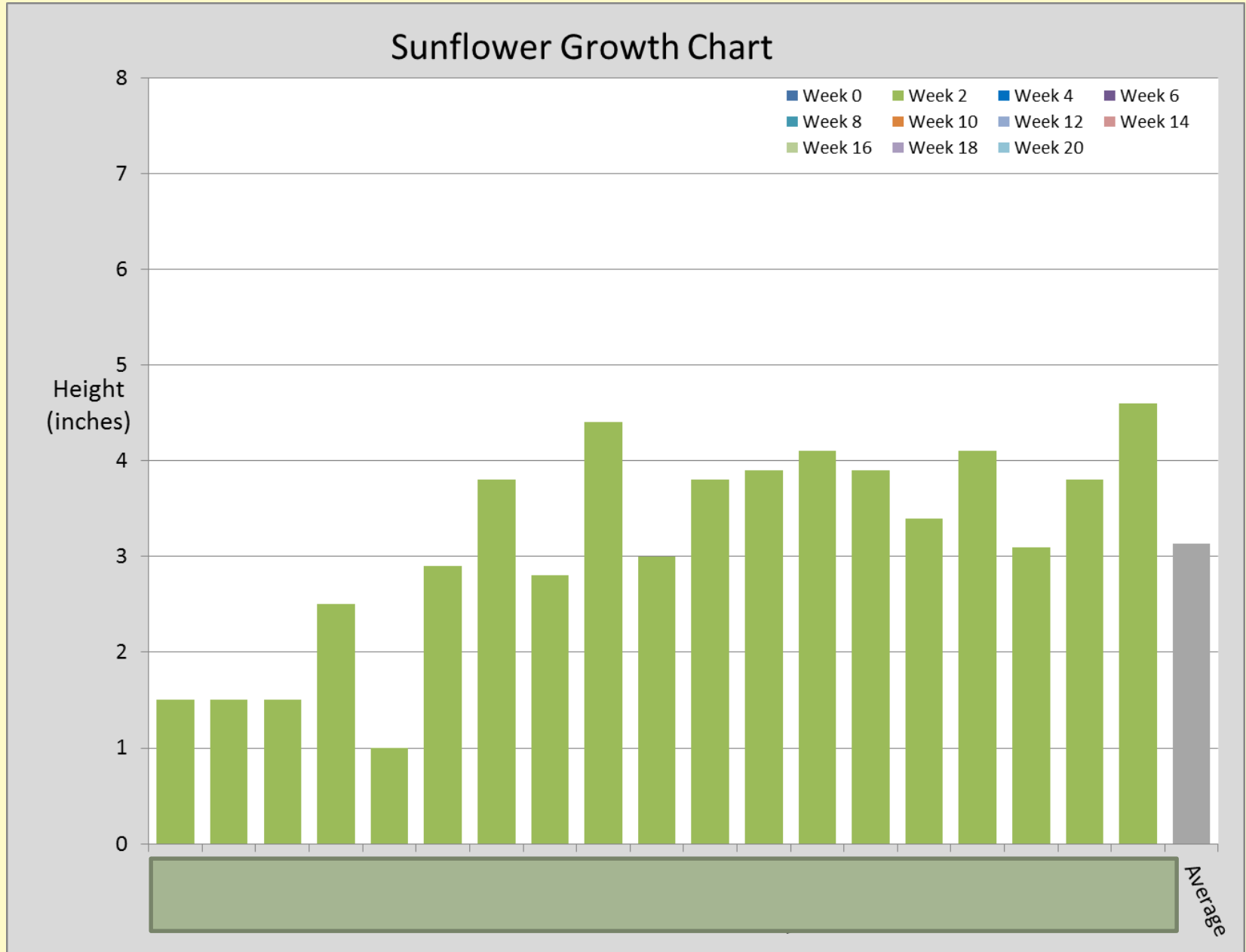
Measuring / Recording Data: Sunflowers at 2 Weeks



Bar Graph – Visually Compares Items



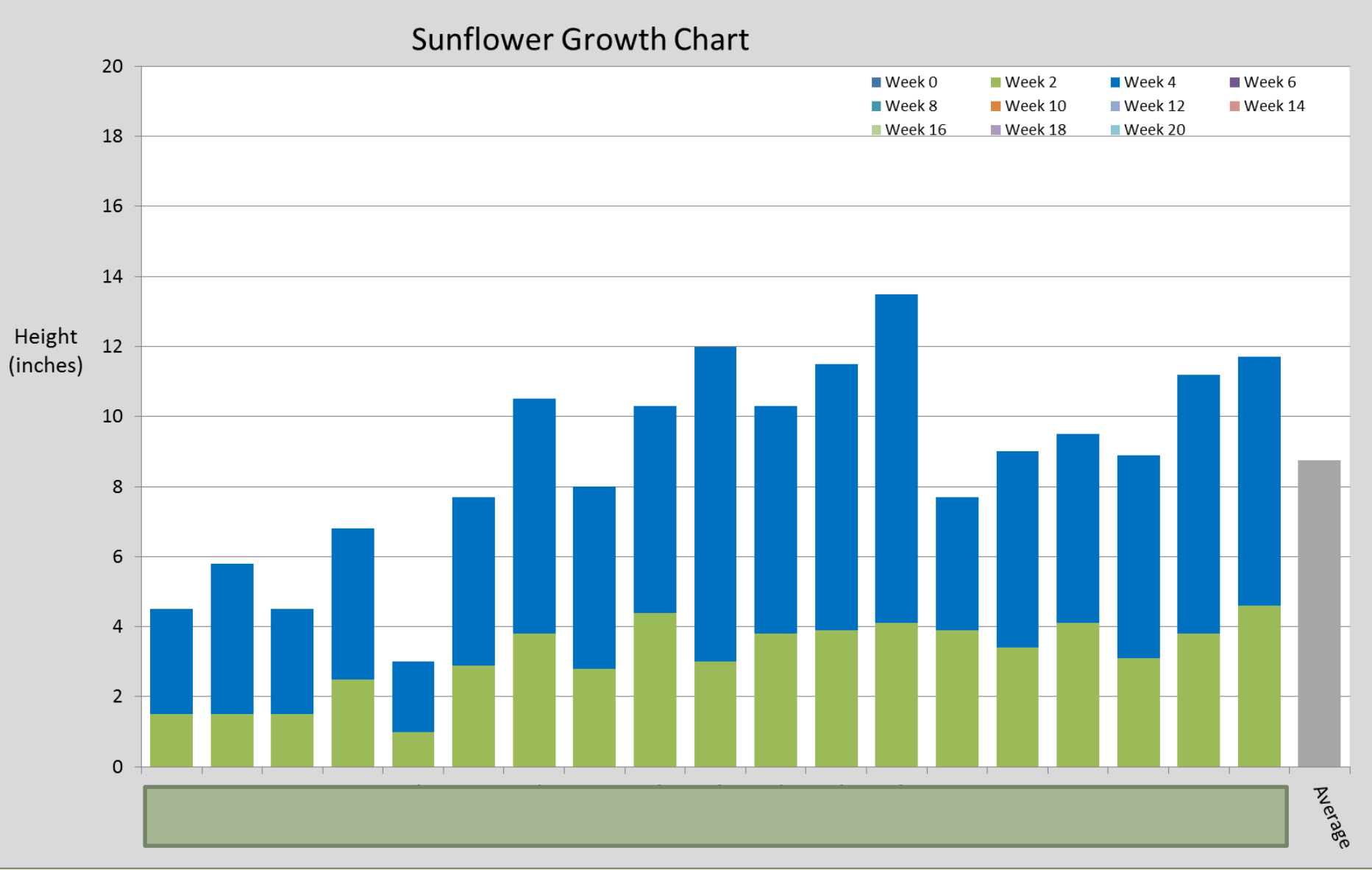
Sunflowers at 2 Weeks



Sunflowers at 4 Weeks



Sunflowers at 4 Weeks: Stacked Bar Chart

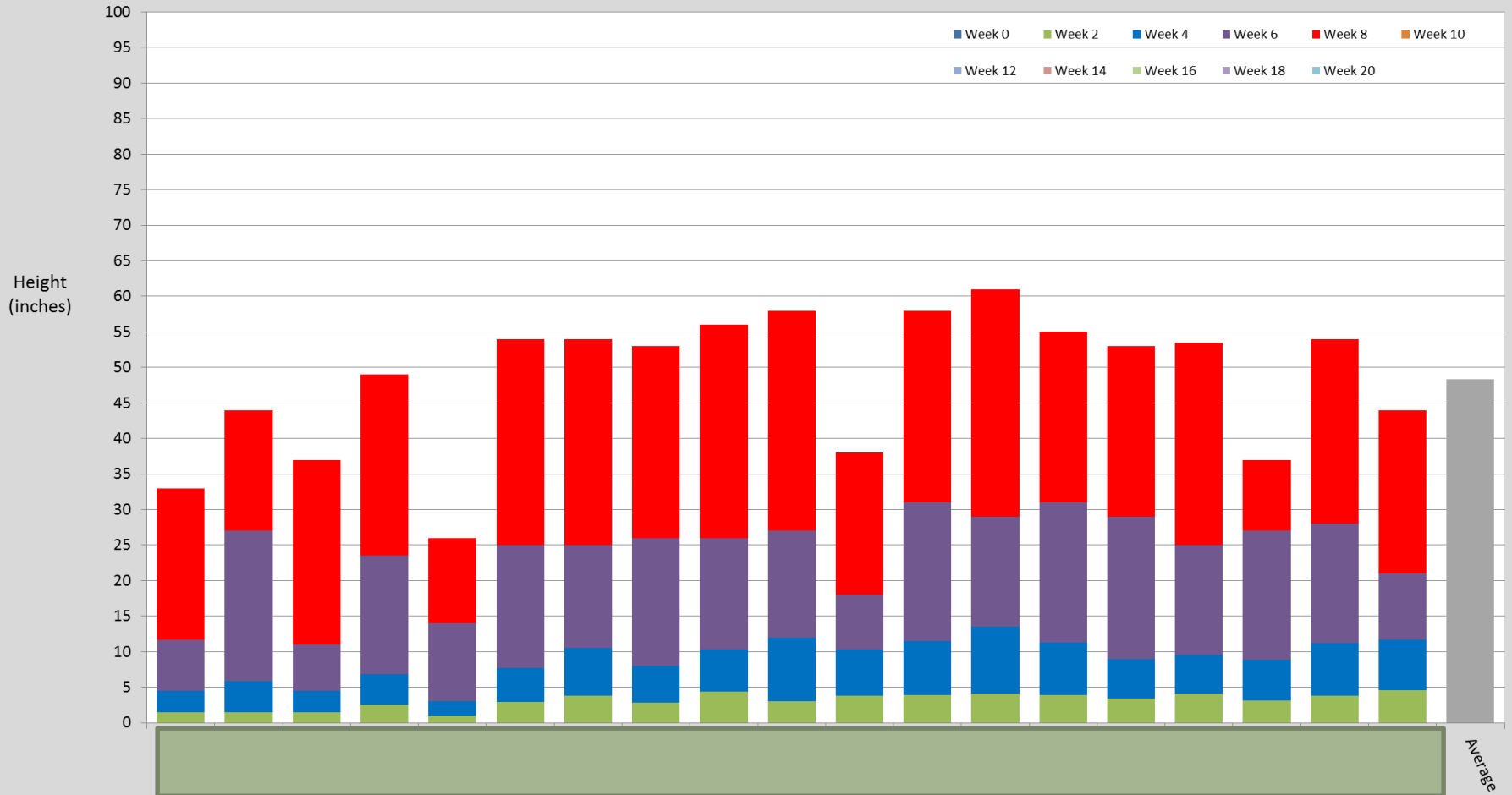


Sunflowers at 8 Weeks



Sunflowers at 8 Weeks

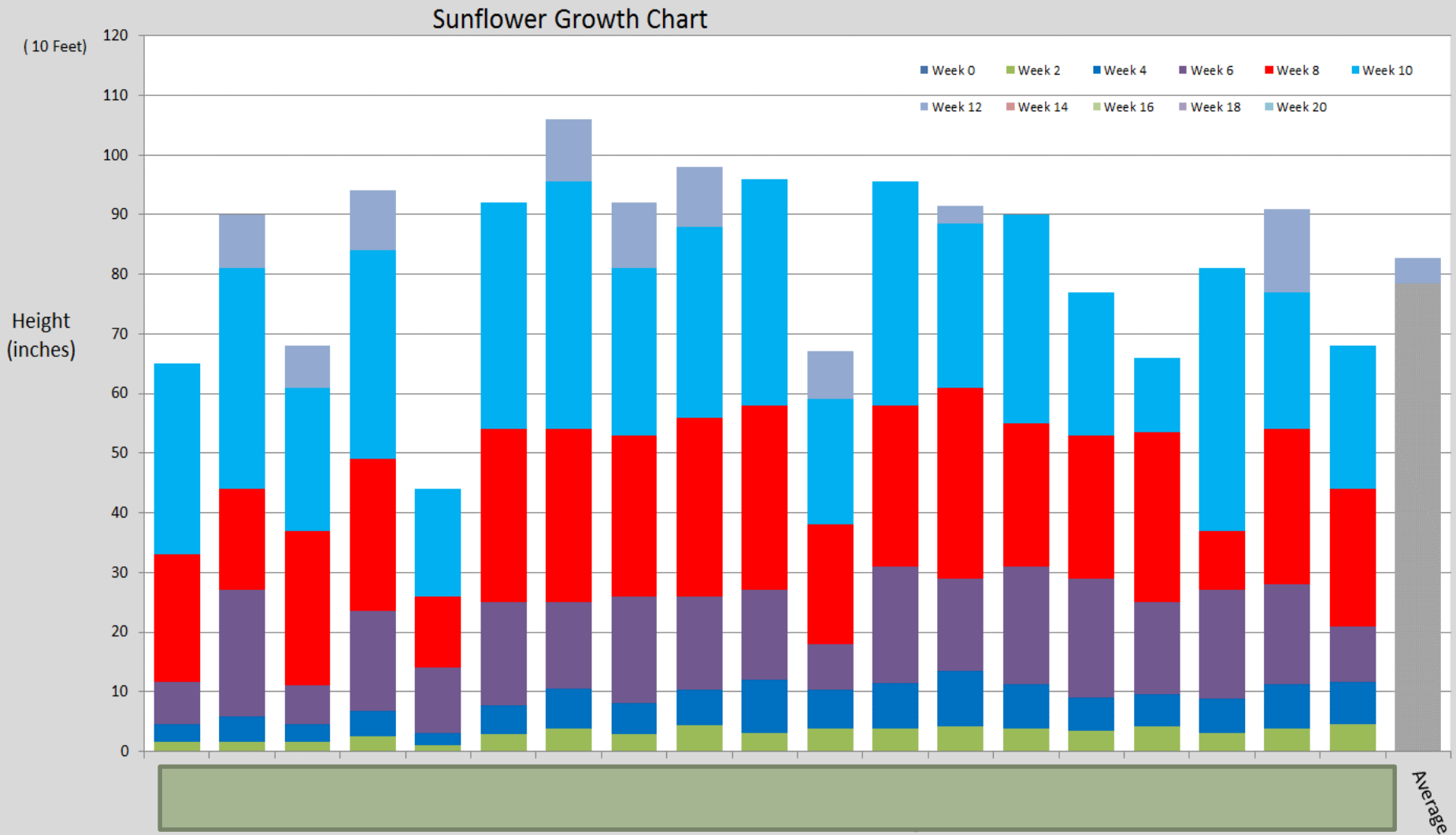
Sunflower Growth Chart



Measuring Sunflowers at 11 Weeks

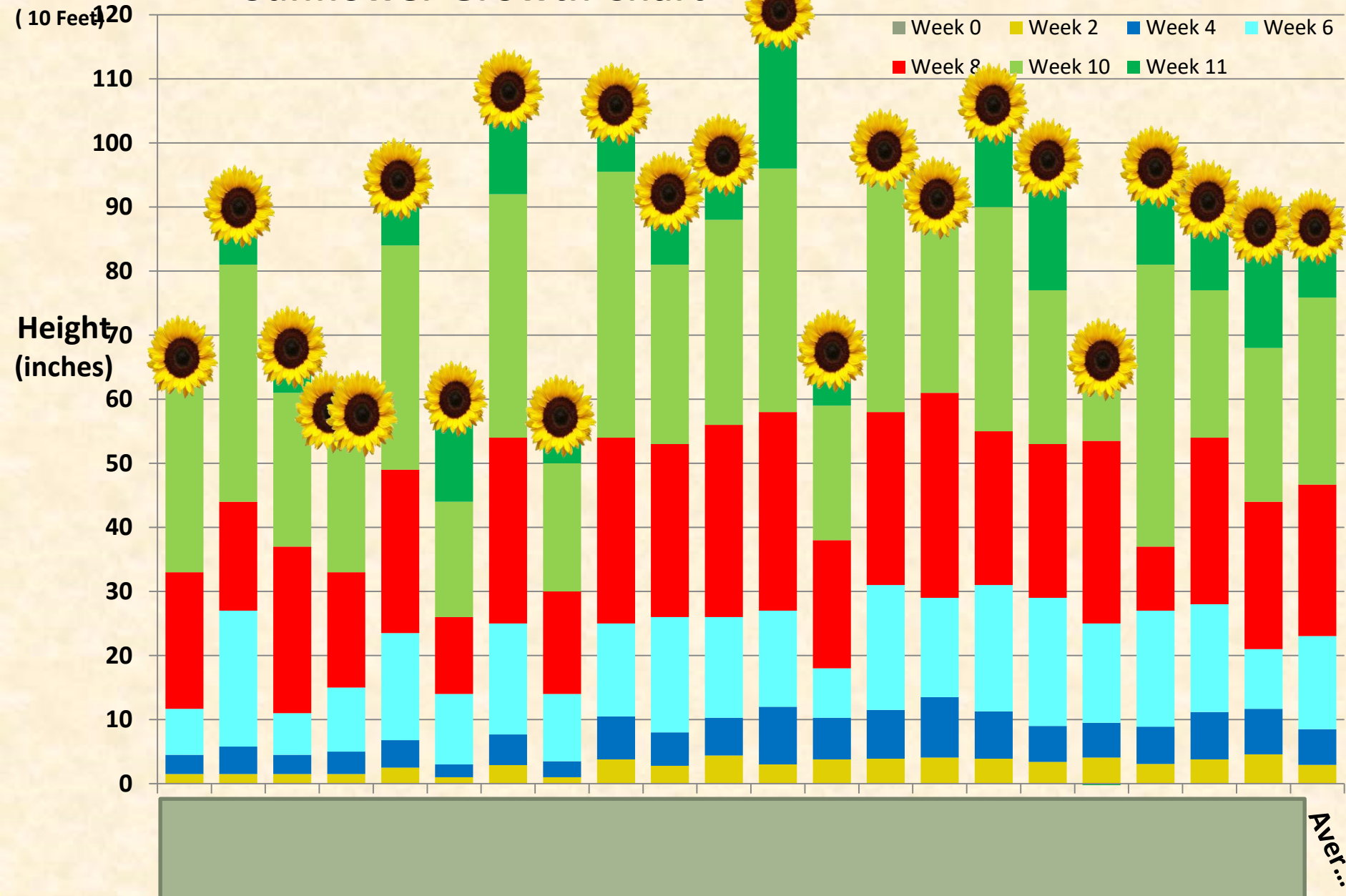


Sunflower Height – 11 Weeks



Final Sunflower Heights

Sunflower Growth Chart



Certificate of Achievement

is hereby awarded to



for

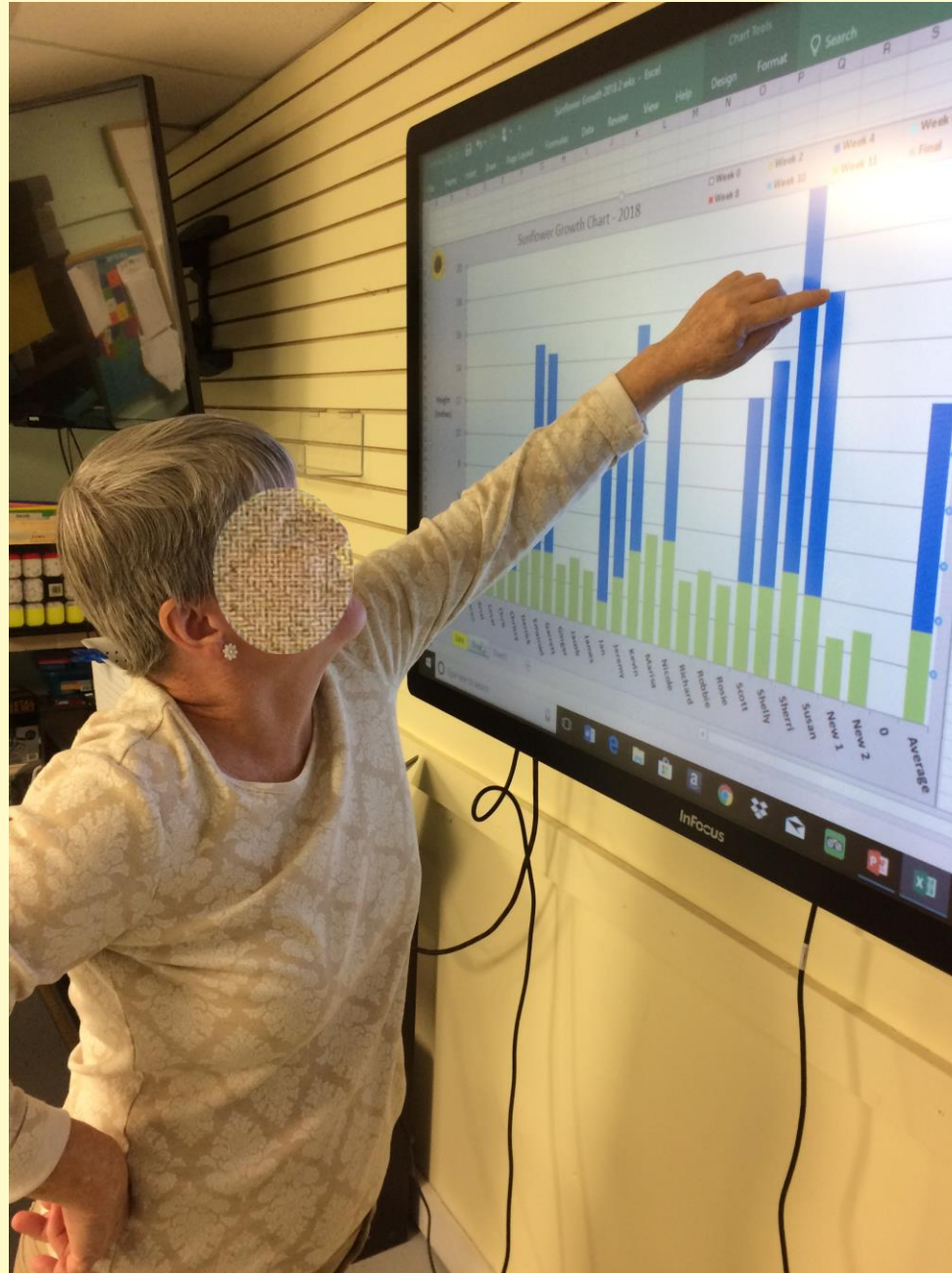
Sunflower Growing Excellence

presented – July 9, 2019

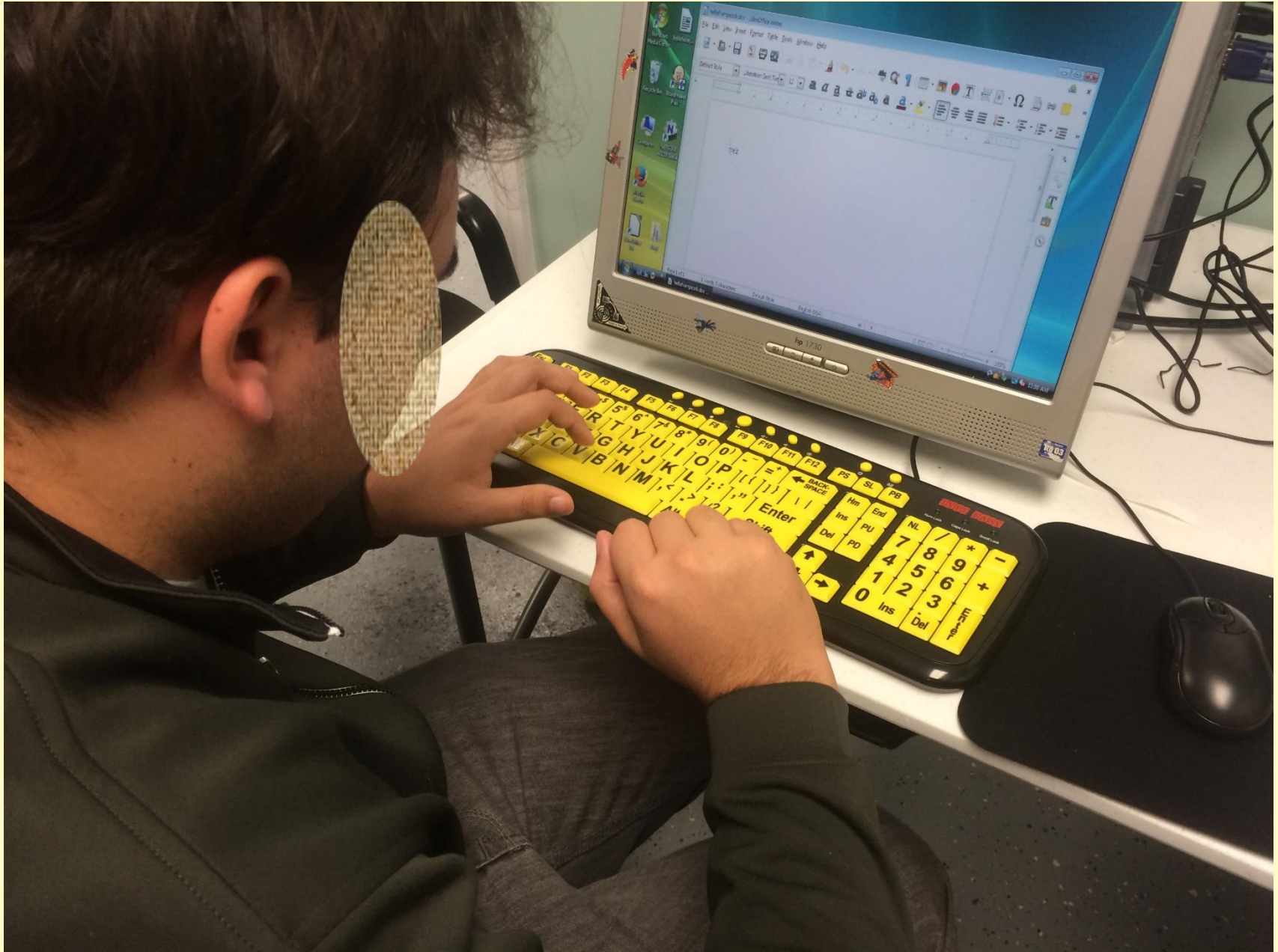
Data entered by Students

		Sunflower Height (inches)						
		Week 0	Week 2	Week 4	Week 6	Week 8	Week 10	Week 11
		0	1.5	4.5	11.7	33	65	66
		0	1.5	5.8	27	44	81	90
		0	1.5	4.5	11	37	61	68
		0	1.5	5	15	33	54	57
		0	2.5	6.8	23.5	49	84	94
		0	1	3	14	26	44	55
		0	2.9	7.7	25	54	92	108
		0	1	3.5	14	30	50	59
		0	3.8	10.5	25	54	95.5	106
		0	2.8	8	26	53	81	92
		0	4.4	10.3	26	56	88	98
		0	3	12	27	58	96	120
		0	3.8	10.3	18	38	59	67
		0	3.9	11.5	31	58	95.5	99
		0	4.1	13.5	29	61	88.5	91.5
		0	3.9	11.3	31	55	90	106
		0	3.4	9	29	53	77	97
		0	4.1	9.5	25	53.5	66	65
		0	3.1	8.9	27	37	81	96
		0	3.8	11.2	28	54	77	91
	0	4.6	11.7	21	44	68	86	
Average		0.00	2.96	8.50	23.06	46.69	75.88	86.26

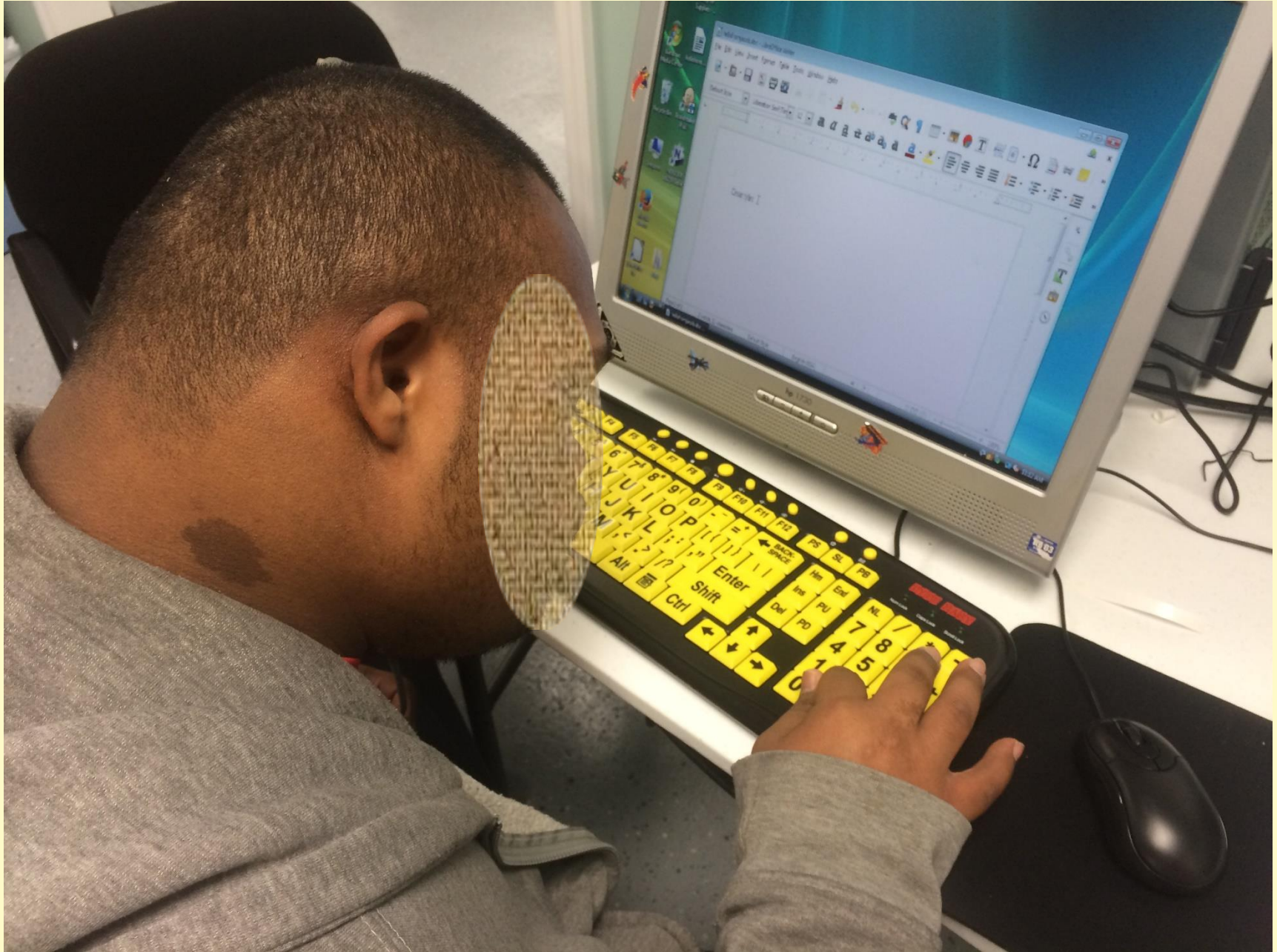
Smart Board used for Class Participation



Big Letter / Number Keyboard



Big Letter / Number Keyboard



Big Letter / Number Keyboard



Remote Number Pad



Wireless Keyboard



Large Letter Keyboards

- Can be purchased online from several companies.
 - Ablenet
 - Ergoguys
 - Type Easy
 - Walmart, Staples, Office Max, etc.
- Remote (wireless) number keypads and keyboards can be purchased online.

What Students learned from these Fun Activities

- Plant Growth & Gardening
- Measuring, Counting & Basic Math Skills
- Using Computers and Assistive Devices
- Food Preparation and Nutrition
- How to enter Data into Spreadsheets
- How to read Bar Graphs & Pictographs
- Social Skills: Communicating and Working together
- Fine Motor Skills

Thank You

- Questions?