Bean There

You need

★ a computer spreadsheet/graphing program

★ a classmate

Activity

For a science fair project, Jyoti decides to track the growth of beans, using two different plant foods: GrowSmart and GardenBest.

She fills four pots with soil, labels them (GS1, GS2, GB1, and GB2), plants a bean in each, pokes in a bamboo stick, and sets them out in a sheltered spot on the deck. She then makes up solutions of the two plant foods.

She waters GS1 and GS2 with GrowSmart and GB1 and GB2 with GardenBest.

Every 2 days for a month, she measures and records their height:

	Height of Beans (centimetres)			
	GrowSmart		GardenBest	
Day	GS1	GS2	GB1	GB2
0	0	0	0	0
2	0	0	0	0
4	4	1	2	0
6	7	3	4	1
8	10	5	5	3
10	14	8	6	4
12	16	12	10	8
14	16	13	10	9
16	18	14	12	10
18	21	16	15	12
20	24	17	17	16
22	28	20	21	18
24	30	23	23	20
26	32	24	24	21
28	33	27	26	24
30	36	32	30	29

At the end of the experiment, Jyoti puts her data into a time-series graph.

- 1. Enter Jyoti's data into a computer spreadsheet and use it to create a clearly labelled time-series graph.

 Discuss with a classmate why this is the best type of graph to use.
- With your classmate, discuss each of the following statements made by Jyoti's friends. Decide whether you agree with what they say and why.

There's a big difference between the growth of GS1 and GB2.

For steady growth, GrowSmart seems better.

