

Chapter 7 / Example 1

Scatter diagrams

The height, and corresponding weight, of 10 students are shown in the table.

Height (cm)	182	155	174	166	158	171	179	180	168	160
Weight (kg)	90	60	84	73	68	77	84	86	74	73

Plot a scatter diagram to represent the data gathered for the 10 students.
Describe what the scatter diagram shows you about the relationship between students' height and weight.

Press **[stat]** 1:Edit and press **[enter]**

Enter the heights in the first column.

Press **[enter]** or **[↓]** after each number to move to the next cell.

Note: If the list contains other numbers, you can clear it by pressing **[stat]** 4:ClrList and press **[enter]**. The home screen displays ClrList. Press **[2nd]** **[1]** **[L1]** and press **[enter]**. Press **[stat]** 1:Edit and press **[enter]** to return to the table.

L1	L2	L3	L4	L5	1
182					
155					
174					
166					
158					
171					
179					
180					
168					
160					

L1(11)=

Press **[▶]** to move to the next column.

Enter the weights in the second column.

L1	L2	L3	L4	L5	2
182	90				
155	60				
174	84				
166	73				
158	68				
171	77				
179	84				
180	86				
168	74				
160	73				

L2(11)=

Press **[2nd]** **[f1]** **[stat plot]**.

Press **[enter]**.

STAT PLOTS	
1:Plot1...Off	
2:Plot2...Off	
3:Plot3...Off	
4:PlotsOff	
5:PlotsOn	

Navigate through the list using **[▶]** **[◀]** **[▲]** **[▼]** keys.

Select Type **[L1]**, Xlist **L1** and Ylist **L2** and Mark **+**. Choose any color.

Press **[enter]** after each choice.

Plot1 Plot2 Plot3	
On Off	
Type: [L1] [L2] [L3] [L4] [L5]	
Xlist:L1	
Ylist:L2	
Mark: [] [] [] [] []	
Color: BLUE	

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Scatter diagrams

Press [f3] [zoom] 9:ZoomStat

The GDC displays a scatter diagram of weight against height.

In general, as height increases, weight also increases.

