

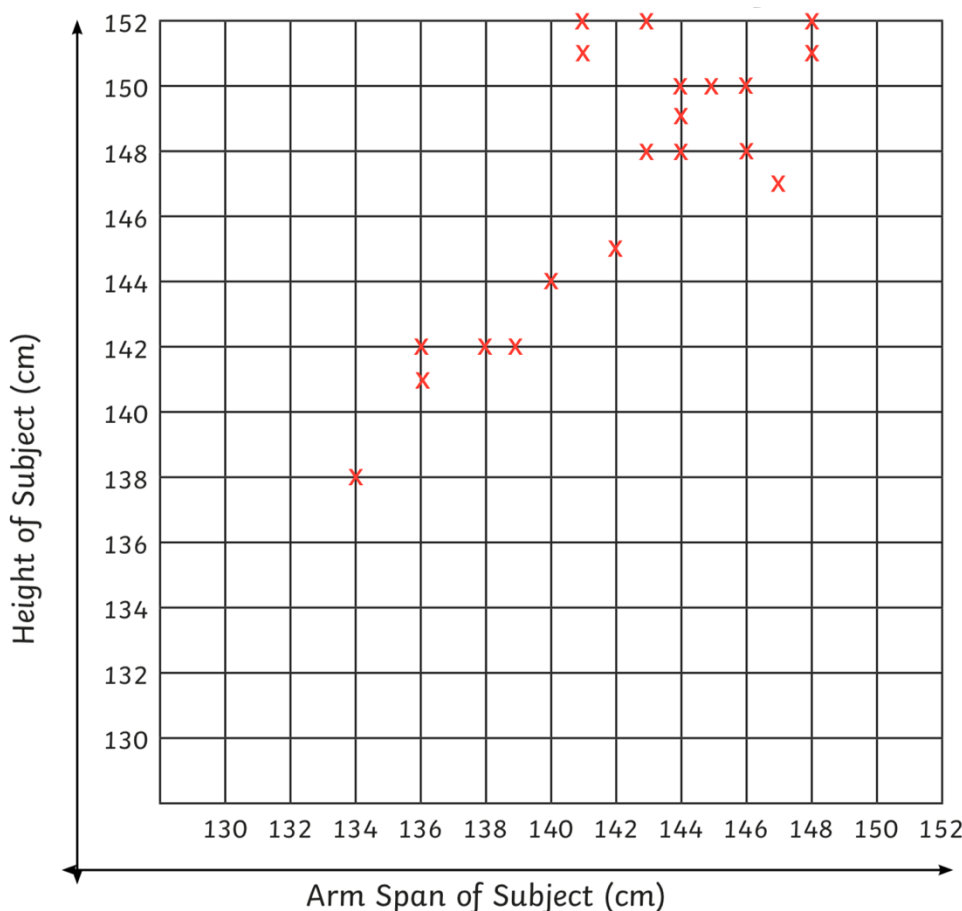
Activity 2 – Plotting a Scatter Graph.

Scatter diagrams are used to represent and compare two sets of data. By looking at a scatter diagram, we can see whether there is any connection (correlation) between the two sets of data.

Plot each subject's data onto the graph below to create a scatter diagram. Use an x to mark the position of each subject.

| Subject | Height | Arm Span |
|---------|--------|----------|
| 1 | 142cm | 136cm |
| 2 | 148cm | 146cm |
| 3 | 152cm | 143cm |
| 4 | 150cm | 145cm |
| 5 | 141cm | 136cm |
| 6 | 142cm | 139cm |
| 7 | 149cm | 144cm |
| 8 | 151cm | 148cm |
| 9 | 147cm | 147cm |
| 10 | 151cm | 141cm |

| Subject | Height | Arm Span |
|---------|--------|----------|
| 11 | 150cm | 144cm |
| 12 | 152cm | 141cm |
| 13 | 148cm | 144cm |
| 14 | 152cm | 148cm |
| 15 | 144cm | 140cm |
| 16 | 148cm | 143cm |
| 17 | 150cm | 146cm |
| 18 | 138cm | 134cm |
| 19 | 145cm | 142cm |
| 20 | 142cm | 138cm |



Look carefully at the position of the subjects. Can you see any correlation/pattern within the data? What does this pattern tell us?

There is a positive correlation between height and arm span. As height increases, so does the arm span. (A tall person would look very silly with short arms!)