

Behaviour and the weather

School A is near Barry in Wales and the nearest Met Office weather station is at St Athan. The behaviour scores were all taken at midday.

To complete this worksheet, the weather data will need to be collected from the Weather Observations Website (WOW).

Date	Behaviour	Wind speed, mph	Humidity	Air temperature
05/03/2012	5			
06/03/2012	2			
07/03/2012	7			
08/03/2012	3			
09/03/2012	5			
12/03/2012	1			
13/03/2012	1			
14/03/2012	2			
15/03/2012	1			
16/03/2012	2			
19/03/2012	3			
20/03/2012	5			
21/03/2012	3			
22/03/2012	7			
23/03/2012	3			
26/03/2012	4			
27/03/2012	4			
28/03/2012	1			
29/03/2012	2			
30/03/2012	5			

Tasks

1. Look at the data for each of the different components. Plot the following graph using Excel:
Wind speed (x axis) versus Behaviour (y axis).
2. Describe the trend that is seen in the data. In other words, describe what happens to the behaviour as the wind speed changes. If there is no pattern, then state that there is no pattern.
3. If you think there is a pattern in the results, are there any outliers in your data?
4. Repeat the same task but investigate if there is any relationship between humidity and behaviour and air temperature and behaviour.

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Date	Behaviour	Wind speed, mph	Humidity	Air temperature
05/03/2012	5	15	58	8.5
06/03/2012	2	9	66	9
07/03/2012	7	18	77	10
08/03/2012	3	14	72	10
09/03/2012	5	15	88	10
12/03/2012	1	5	98	7.5
13/03/2012	1	7	98	7
14/03/2012	2	8	90	6.5
15/03/2012	1	5	95	7
16/03/2012	2	8	78	9
19/03/2012	3	11	78	9
20/03/2012	5	14	72	11
21/03/2012	3	10	70	11
22/03/2012	7	19	60	14
23/03/2012	3	10	70	14
26/03/2012	4	13	57	15
27/03/2012	4	13	55	15
28/03/2012	1	7	60	14
29/03/2012	2	9	60	15
30/03/2012	5	6	81	10

Tasks

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