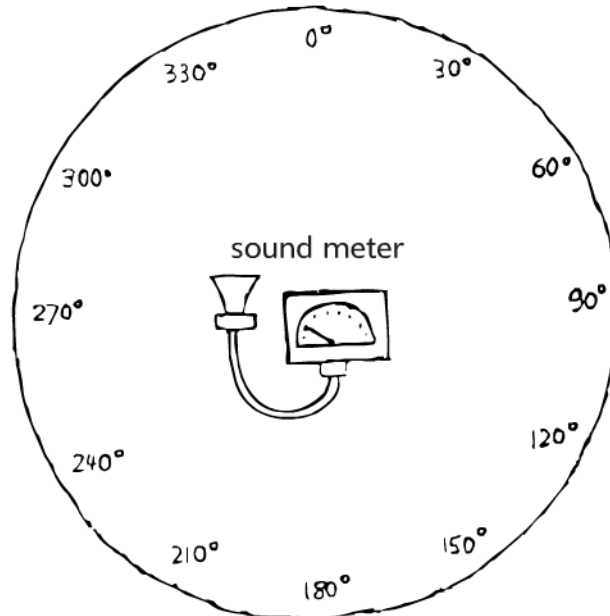


Recording sound levels

Some children set up a sound meter to measure how loud a sound was:



They took two readings for each direction the sound meter pointed in. They recorded the following results:

Direction	Volume 1	Volume 2	Average volume	Direction	Volume 1	Volume 2	Average volume
0°	4	6		180°	9	7	
30°	3	5		210°	9	9	
60°	5	3		240°	8	10	
90°	8	2		270°	8	8	
120°	7	5		300°	6	8	
150°	8	6		330°	7	5	

Then the children plotted a graph of the average sound volume (on the y-axis) against the direction the sound meter pointed in (on the x-axis).

Fill in the average values, then plot the graph on a separate sheet of graph paper.

Discuss these questions:

- Why is it a good idea to take more than one reading?
- Are there any readings you would want to check again?
- Which direction do you think the sound source is in?