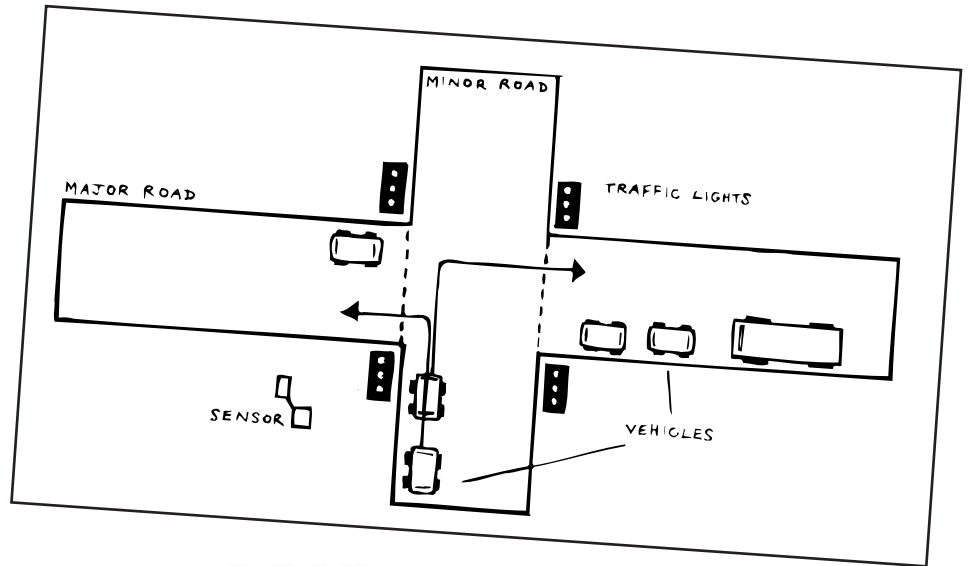
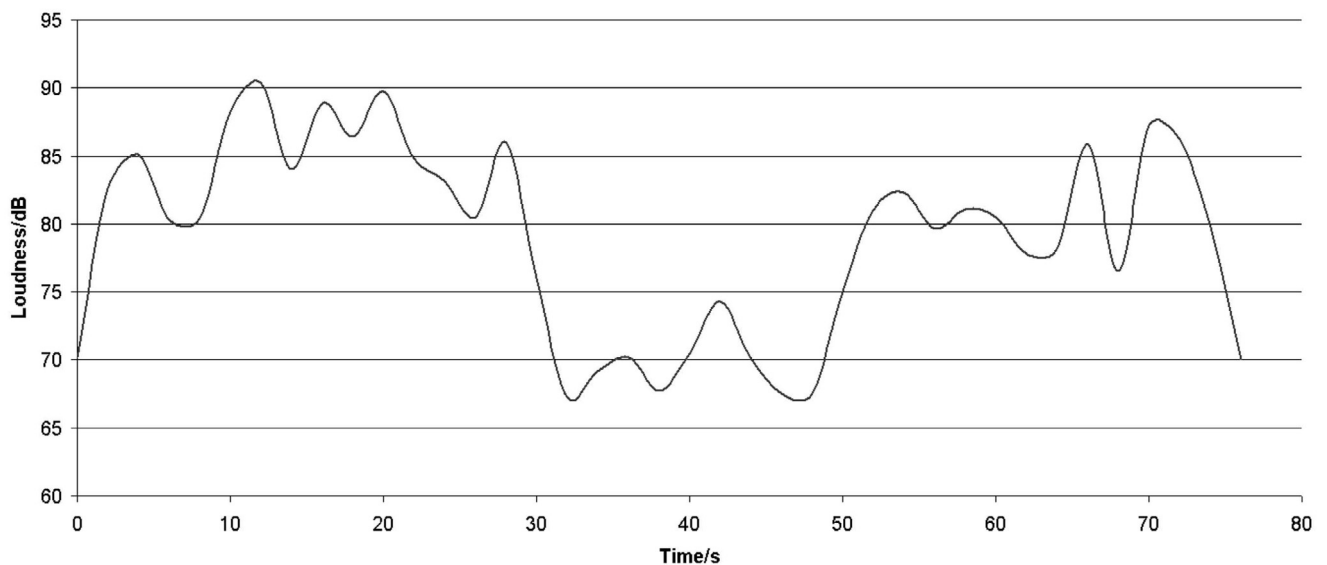


Traffic lights

Martin, Paul and Angie were using a sound sensor to measure how loud the traffic noise was near a road junction. They connected the sensor to a computer, which created this graph.



Traffic lights



Questions

1. Why do you think the loudness of the sound went up and down?
2. How many cars went through the traffic lights in the first 30 seconds?
3. When did the traffic lights first change?
4. How can you tell this from the graph?
5. How many cars then went through the lights in the other direction?
6. When did the lights change back?
7. Which set of traffic had a longer time on green?
8. Can you think of a reason why the times on green were not the same?
9. Which set of traffic do you think the children were nearer to?
10. How can you tell this from the graph?
11. Why do you think the loudness did not go down to 0dB at any time?