INTERTWINING KNOWLEDGE

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In this work we intend to include Statistics classes as a significant matter in the students’
growth at Basic School. We are taking part in a project sponsored by FAPESP (Fundação de
Amparo à Pesquisa do Estado de São Paulo, 04/13457-0) which brought the Census at School
(Census at school project – UK, http://www.censusatschool.ntu.ac.uk/) idea to classrooms. First
we tested on a small scale. The aim is to apply one of the Census questionnaires using some
statistics tools for each of the different phases.

One of the areas looked at is the distance from home to school which, among other
things, asked for a scale map, looked at the length measurements, etc. A modern map is a
proportional and accurate representation of reality. As we are an interdisciplinary group, each
one coming from a different area (mathematics, biology, philosophy and arts) many fields are
articulated to end up with a knowledge net coming from a central focus. So we worked on:

- The role of Statistics/Mathematics today with a look at its genesis.
- Arts, taking into account the origins of perspectives and proportions in Renaissance Paintings.
- Sciences, studying the appropriation of Statistics/Mathematics Language by the modern
  Sciences and Physics.
- Philosophy, studying the appropriation of reasoning nowadays.

The effective articulation of knowledge (according to the National Curriculum) showed a
broader meaning in the teaching and learning for both teachers and students. It is not that easy,
because an interdisciplinary approach is not, traditionally, the school day life. Even the students
sometimes do not understand why teachers from different areas could be interested in the same
project (more even, a quantitative one!). This can be one of the targets to be reached in our basic
schools. Some students’ impressions will be reported.