Sample task 2

Epidemics: modelling with mathematics

Understanding the use of vaccination in preventing the spread of epidemics.

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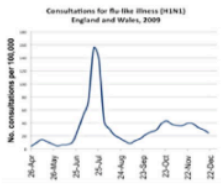
Classroom materials, motivating pupils for math and science



World of Work

Becoming a(n)...
Mathematician

World of Work Dimensions

Context
The mathematician's profession is explicitly exemplified, wherein epidemics are used as a phenomenon to legitimize the WoW beforehand.

Role
The student remains a student and is not asked to empathize with the profession of a mathematician.

Activity
Recommended computer program is an analogy of an authentic modeling program. Modeling is an authentic practice.

Product

Abstract

Maths in context (mathematical modelling, interpreting graphs). Students will develop mathematical models which help government and other bodies to predict how diseases will spread, and how that spread can be minimised.

Documents

- 26 Card Disease
- Counter Plague
- Graphs
- Standing Disease
- Teacher Notes

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Inquiry Learning

Inquiry Learning Dimensions

- Exploring situations
- Planning Investigations
- Experimenting systematically
- Interpreting and evaluating
- Communicating results

Discipline
- Mathematics ✓
- Biology
- Physics
- Chemistry
- Engineering

Target group
- Primary Education
- Lower Secondary Education ✓
- Upper Secondary Education

Age range
11–15

Duration
50 min.