

Possible “Research Report” stimuli and outcomes

The word in **bold** below is the stimulus given to the student by the teacher and beneath these are the titles of some possible outcomes produced by the student.

Team members will be working on verifying whether there is suitable mathematical content in each of these possible outcomes.

Art

Golden Ratio in Art
Geometric Perspective in Art
Platonic Solids and Polyhedra
Fractal Art
Symmetry and Patterns
Kaleidoscopes and Tessellations
Mathematics in Music and Dance

Traffic Flow

Trafficking Networks
Implications of the “Two Second Gap” on Traffic Flow
Maths Behind the Psychology of Changing Lanes
Traffic Light Sequences

Weather

Dynamic Systems and Chaos Theory (HL)
Spectrum Model (HL)
Numerical Weather Predictions

“The Grapes of Math” – A Global Warming Fraud

Selective Data and Global Warming

These appear to be very leading questions.

Notation

The Calculus Controversy (Newton/Liebnitz)
The History/Future of Mathematical Notation
The Influence on Technology on Notation, and vice-versa
Appreciate the International Dimension of Mathematics