

Maths Studies Project Ideas

Aesthetics

- Calculating beauty – Golden Ratio
- Colour preferences
- Illusions
- Mirror images
- Origami applications to mathematics
- Shadows and height

Business & Finance

- A comparative study of stocks and shares
- Analysis of stock market changes
- Buying a car – payment options
- Mortgage loans
- Running a restaurant and dance club
- Yen/dollar fluctuations

Food and Drink

- A comparison between calorie intake and gender
- Dine in or dine out?
- School lunches
- Jelly bean study
- Take the cola challenge
- The cookie problem – taste is all important
- The operation of a tuck shop

Health & Fitness

- Breakfast and school grades
- Breast and cervical cancer – ethnic comparison
- Infant mortality
- Investigating reaction times
- A comparison between lung capacity, age, weight and body fat

Nature and Natural Resources

- Analysis of the cost and utility of gas versus electricity in an average domestic situation
- Calculating the time of sunrise and sunset
- Earthquakes
- Kangaroo Island koalas
- The quality of local water
- Water, wine & roses

People

- Aggression
- Characteristics of federal prisoners
- Gender based discrimination
- Marriage celebrants
- Perception of time
- The psychology of memory
- Voter turnout

School-based titles

- Alcohol consumption and teenagers
- Girls sport and grades
- Left-handed students
- Performance of local students compared with foreign students
- Searching for the ideal sound
- Sport and nationality

Sport

- Bat speed compared with body weight
- Effective short corners in hockey
- Factors affecting athletic performance
- How far do tennis balls roll?
- Resistance of fishing line
- Stoppage time in football games
- Will female swimmers ever overtake male swimmers?

Travel & Transport

- Air travel – distance compared with price
- Cost efficiency of vehicles
- Driving skills
- Petrol prices
- Seat belt use
- Traffic movement in an urban area
- Transport safety in town centres
- Running late and driving habits

Miscellaneous

- Astronomy
- Average puppy weights in the first few weeks
- Colour of words
- Counting weeds
- International phone call pricing
- Memory
- Practice makes perfect
- Predicting cooling times
- Video games and response times

Look through these ideas for projects. Mark any that interest you. Maybe they will give you an original idea of your own. Write down ideas of projects that might interest you. What information would you need to collect? Which mathematical skills would you be able to demonstrate?