

Year 9 Maths WebQuest: RENTorBUY?

CURRICULUM FRAMEWORK LEARNING OUTCOMES

The tasks in this WebQuest have been specifically designed to help students to work towards achieving the following outcomes specified in the Curriculum Framework (1998):

Overarching Learning Outcomes

The main learning areas addressed in this WebQuest is **Mathematics, English and Society and Environment**. The OLO's directly linked to the tasks are outcomes 2, 4, 6, 10 and 12. Outcome 3 will be addressed by students accessing a variety of **resources** to conduct their research. Outcome 4 will be addressed by students using a variety of **technologies** during the completion of this task, e.g. Spreadsheets, PowerPoint, the Internet and Blogs. Outcome 6 will be addressed by students applying **high-order thinking skills** to solve some of the problems posed to them and to **reflect** on the conclusions they reach. Outcome 10 will be addressed by encouraging students to access different types of text from different authors to conduct their research. Students are encouraged to work **individually** and **collaboratively** to achieve their goals and therefore Outcome 12 is addressed by this activity.

Learning Area Outcomes

Mathematics

The main learning area in this WebQuest is Mathematics. The following outcomes will be addressed as students progress through Tasks 1 to 5:

- Outcome 1 – Appreciating Mathematics

“Show a disposition to use mathematics to assist with understanding new situations, solving problems and making decisions, showing initiative, flexibility and persistence when working mathematically and a positive attitude to their own continued involvement in learning and doing mathematics.” (Curriculum Framework, 1998, p.180)

- Outcome 3 – Working Mathematically

“Call on a repertoire of general problem solving techniques, appropriate technology and personal and collaborative management strategies when working mathematically.” (Curriculum Framework, 1998, p.180)

- Outcome 4 – Working Mathematically

“Choose mathematical ideas and tools to fit the constraints in a practical situation, interpret and make sense of the results within the context and evaluate the appropriateness of the methods used.” (Curriculum Framework, 1998, p.185)

- Outcome 8 – Number

“Choose and use a repertoire of mental, paper and calculator computational strategies for each operation, meeting needed degrees of accuracy and judging the reasonableness of results.” (Curriculum Framework, 1998, p.187)

Students will work toward these outcomes by working **independently**, using various types of **technology** to assist them in their **problem solving** and by **making sense** of the results of their research.

Society and Environment

- Outcome 3 – Resources

“Students understand that people attempt to meet their needs and wants by making optimum use of limited resources in enterprising ways.” (Curriculum Framework, 1998, p.256)

Students will work toward this outcome by creating their own **budget** and managing their income and expenses.

English

- Outcome 4 – Processes and Strategies

“Students select from a repertoire of processes and strategies by reflecting on their understanding of the way language works for a variety of purposes in a range of contexts..” (Curriculum Framework, 1998, p.88)

- Outcome 7 – Viewing

“Students view a wide range of visual texts with purpose, understanding and critical awareness.” (Curriculum Framework, 1998, p.90)

- Outcome 8 – Reading

“Students read a wide range of visual texts with purpose, understanding and critical awareness.” (Curriculum Framework, 1998, p.91)

- Outcome 9 – Writing

“Students write for a range of purposes and in a range of forms using conventions appropriate to audience, purpose and context.” (Curriculum Framework, 1998, p.91)

Students will work toward these outcomes by **researching** various types of **text** to assemble information, by researching the **meaning** of various terms and expressing it in their own words and by **reflecting** and commenting on their conclusions as well as creating a PowerPoint **presentation** to summarise their findings.

References

Department of Education (2009), Curriculum Framework,
http://www.curriculum.wa.edu.au/internet/Years_K10/Curriculum_Framework/Curriculum_Framework (Accessed 03/05/2010)