**“Estimating how much water and food is needed for emergency relief in a devastated city of 3 million people, and how it might be distributed. ”**

**“develop an understanding of the principles and nature of mathematics”**

**“develop the ability to reflect critically upon their own work and the work of others ”**

**“communicate clearly and confidently”**

**“The student who can explain the rule understands the mathematics, and may have a better chance to succeed at a less familiar task ”**

**“Students develop patience and persistence in problem solving. ”**

**“develop a lifelong interest in reading widely”**

**“mathematical understanding is the ability to justify, in a way appropriate to the student’s mathematical maturity, why a particular mathematical statement is true or where a mathematical rule comes from”**

**“substantiate and justify ideas with relevant examples”**

**“Students cite specific evidence when offering an oral or written interpretation of a text.”**

**“respond thoughtfully to diverse perspectives”**

**“demonstrate an ability to express ideas clearly and fluently in both written and oral communication, with an effective choice of register and style”**

**“they comprehend as well as critique”**

**“This involves the use of effective search skills to access relevant information from the internet, the effective management of data and the presentation of information in a range of forms to a specified audience.”**

**“engage with information and communication technology in order to explore language”**

**“This may include employing technological tools to assist students in forming and testing conjectures, creating graphs and data displays and determining and assessing lines of fit for data.”**

**“transfer skills to alternative situations and to future developments”**

**“recognize patterns and structures in a variety of situations, and make generalizations”**

**“recognize and demonstrate an understanding of the practical applications of mathematics”**

**“Students establish a base of knowledge across a wide range of subject matter”**

**“The majority of these students will expect to need a sound mathematical background as they prepare for future studies in subjects such as chemistry, economics, psychology and business administration.”**