

**EXTENDING - APPROACHES TO LEARNING MATHEMATICS – Students in Grade 10 are learning to:**

<i>Work Habits</i>	<i>Collaboration</i>	<i>Communication</i>	<i>Information Literacy</i>	<i>Reflection</i>	<i>Thinking</i>	<i>Connecting Ideas</i>
<p><b><u>Organization</u></b></p> <ul style="list-style-type: none"> <li>- Be responsible and independent</li> <li>- Take notes</li> <li>- Be systematic</li> </ul> <p><b><u>Time Management</u></b></p> <ul style="list-style-type: none"> <li>- Make and keep appointments</li> <li>- Schedule priorities</li> <li>- Meet deadlines</li> <li>- Identify various ways to complete projects</li> <li>- Breakdown assignments and projects into tasks</li> <li>- Apply a process to achieve results</li> </ul> <p><b><u>Motivation and Engagement</u></b></p> <ul style="list-style-type: none"> <li>- Take responsible risks</li> <li>- Initiate and maintain inquiry</li> <li>- Accept and give constructive feedback</li> <li>- Create new ideas</li> <li>- Discuss information and ideas</li> </ul> <p><b><u>Present work</u></b></p> <ul style="list-style-type: none"> <li>- Present organized and accurate work</li> <li>- Evaluate product and process with precision and confidence</li> </ul>	<p><b><u>Working with Others</u></b></p> <ul style="list-style-type: none"> <li>- Use others' ideas critically and appropriately</li> <li>- Evaluate own understandings of others' ideas</li> <li>- Encourage others</li> <li>- Take part in groups</li> <li>- Delegate responsibilities</li> <li>- Support group members taking the lead</li> <li>- Cope with difficulties</li> <li>- Cope with uncooperative, unreliable or unhelpful group members</li> <li>- Inspire others</li> </ul> <p><b><u>Face Challenges</u></b></p> <ul style="list-style-type: none"> <li>- Resolve conflict</li> <li>- Achieve goals</li> <li>- Use teamwork</li> <li>- Accept group decisions</li> <li>- Develop alternatives</li> </ul>	<p><b><u>Be Literate</u></b></p> <ul style="list-style-type: none"> <li>- Use reading strategies</li> <li>- Interpret a wide range of content-specific and technical language</li> <li>- Read and interpret different sources of information including statistics, graphs, etc</li> </ul> <p><b><u>Learn With Others</u></b></p> <ul style="list-style-type: none"> <li>- Initiate discussions</li> <li>- Negotiate goals, limitations, and concerns with peers and supervisor</li> </ul> <p><b><u>Be Informed</u></b></p> <ul style="list-style-type: none"> <li>- Synthesize different sets of ideas and information</li> <li>- Critically evaluate ideas and information</li> </ul> <p><b><u>Inform Others</u></b></p> <ul style="list-style-type: none"> <li>- Use appropriate text conventions in writing tasks</li> <li>- Support central arguments</li> <li>- Compose clear, coherent, and organized writing</li> </ul>	<p><b><u>Access information</u></b></p> <ul style="list-style-type: none"> <li>- Use the library and Cat's Den for a variety of resources</li> <li>- Construct surveys and interviews</li> </ul> <p><b><u>Use of Media</u></b></p> <ul style="list-style-type: none"> <li>- Use a variety of graphic devices and technology to present spoken and written information and ideas such as the use of the Graphic Display Calculator, Ti-smart View, Math type and other software</li> <li>- Use appropriate media in presentations</li> </ul> <p><b><u>Select and Organize Information</u></b></p> <ul style="list-style-type: none"> <li>- Use primary and secondary research</li> <li>- Use paraphrasing and quotations</li> <li>- Evaluate relevance and validity</li> <li>- Identify point of view, bias, and weaknesses</li> <li>- Make inferences</li> </ul> <p><b><u>Be Honest</u></b></p> <ul style="list-style-type: none"> <li>- Use parenthetical referencing for all sources</li> <li>- Respect the concepts of plagiarism and intellectual property</li> <li>- Avoid the misuse of others' ideas through various strategies</li> <li>- Utilize Turnitin.com</li> </ul>	<p><b><u>Be Self Aware</u></b></p> <ul style="list-style-type: none"> <li>- Explore beyond own learning styles and preferences</li> <li>- Adapt to learning situations and requirements</li> <li>- Seek and appreciate criticism</li> <li>- Use self-analysis</li> </ul> <p><b><u>Improve Ideas and Work</u></b></p> <ul style="list-style-type: none"> <li>- Reflect on concrete feedback</li> <li>- Combine reflection and analysis to identify specific ways to improve</li> </ul>	<p><b><u>Apply Past Knowledge</u></b></p> <ul style="list-style-type: none"> <li>- Form reasoned opinions</li> <li>- Create questions and problems from different perspectives</li> <li>- Draw logical conclusions from evidence</li> </ul> <p><b><u>Generate ideas</u></b></p> <ul style="list-style-type: none"> <li>- Make predictions and justify them</li> <li>- Combine critical and creative thinking strategies</li> <li>- Consider different perspectives</li> <li>- Synthesize ideas to create new ones</li> </ul> <p><b><u>Organize Ideas</u></b></p> <ul style="list-style-type: none"> <li>- Evaluate a planning and outlining strategy</li> </ul> <p><b><u>Inquire</u></b></p> <ul style="list-style-type: none"> <li>- Evaluate, question, and challenge information and arguments</li> <li>- Develop guiding questions for focus</li> </ul> <p><b><u>Pose Problems</u></b></p> <ul style="list-style-type: none"> <li>- Apply and evaluate a solution to a real world problem</li> <li>- Deduce problems</li> <li>- Evaluate real world solutions</li> </ul>	<p><b><u>Make Connections</u></b></p> <ul style="list-style-type: none"> <li>- Use knowledge across subjects to create products or solutions</li> <li>- Understand interdisciplinary tasks</li> <li>- Apply skills and knowledge to unfamiliar situations</li> </ul> <p><b><u>Appreciate Culture</u></b></p> <ul style="list-style-type: none"> <li>- Participate in Zambia Week</li> <li>- Respect cultures and explore cultural perspectives</li> </ul>

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