

## IB – THE LEARNER PROFILE IN MATHEMATICS

| Attribute     |   |
|---------------|---|
| Caring        | <p><i>"We show empathy, compassion and respect..."</i></p> <p>How can we show empathy, compassion and respect in our classroom?</p>   |
| Principled    | <p><i>"We act with integrity and honesty, with a strong sense of fairness and justice,..."</i></p> <p>Why is it important to be honest in Mathematics? Is it possible to be dishonest with Mathematics?</p>   |
| Open-minded   | <p><i>"...We seek and evaluate a range of points of view, and we are willing to grow from the experience."</i></p> <p>How open-minded are you about mathematics? How many ways are there to solve a problem in maths? Are you ready to listen to the mathematical strategies of others?</p>   |
| Risk-takers   | <p><i>"We approach uncertainty with forethought and determination; we work independently and cooperatively to explore new ideas and innovative strategies..."</i></p> <p>Is there any chance of being a risk-taker when doing mathematics? How can you be a risk-taker in mathematics?</p>  |
| Balanced      | <p><i>"We understand the importance of balancing different aspects of our lives - intellectual, physical, and emotional..."</i></p> <p>How balanced are your views about mathematics? How do you make sure you are in the best condition you can be for learning in mathematics?</p>  |
| Inquirers     | <p><i>"We nurture our curiosity, developing skills for inquiry and research. We know how to learn independently and with others. We learn with enthusiasm and sustain our love of learning throughout life."</i></p> <p>Of what relevance is maths to our lives? Can you be creative with mathematics? Can you learn with enthusiasm even though you are not interested in the subject?</p> |
| Knowledgeable | <p><i>"We develop and use conceptual understanding, exploring knowledge across a range of disciplines..."</i></p> <p>Does being good at mathematics make you more knowledgeable? What do you need to know from mathematics?</p>   |

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| <p><b>Thinkers</b></p>      | <p><i>"We use critical and creative thinking skills to analyze and take responsible action on complex problems..."</i></p> <p>Do you use both critical and creative thinking skills in mathematics? Could the knowledge and skills we gain through mathematics help us make important decisions? Could the study of mathematics change the way I think about things?</p>   |
| <p><b>Communicators</b></p> | <p><i>"We express ourselves confidently and creatively in more than one language and in many ways. We collaborate effectively, listening carefully..."</i></p> <p>Can you express yourself mathematically? Is mathematics a universal language? How good are you at communicating what you know in the best possible way in mathematics? Do you take advantage of learning from others in class?</p>   |
| <p><b>Reflective</b></p>    | <p><i>"We thoughtfully consider the world and our own ideas and experience. We work to understand our strengths and weaknesses in order to support our learning and personal development"</i></p> <p>Do you review your ideas about mathematics regularly? Do you check through your work before handing it in and consider the way you have tackled or presented your work? Do you read through the teacher's comments on your work when it is returned to you? Do you review what happened in the last lesson before you go to the next? Do you learn from your mistakes? Do you learn from those of others?</p> |