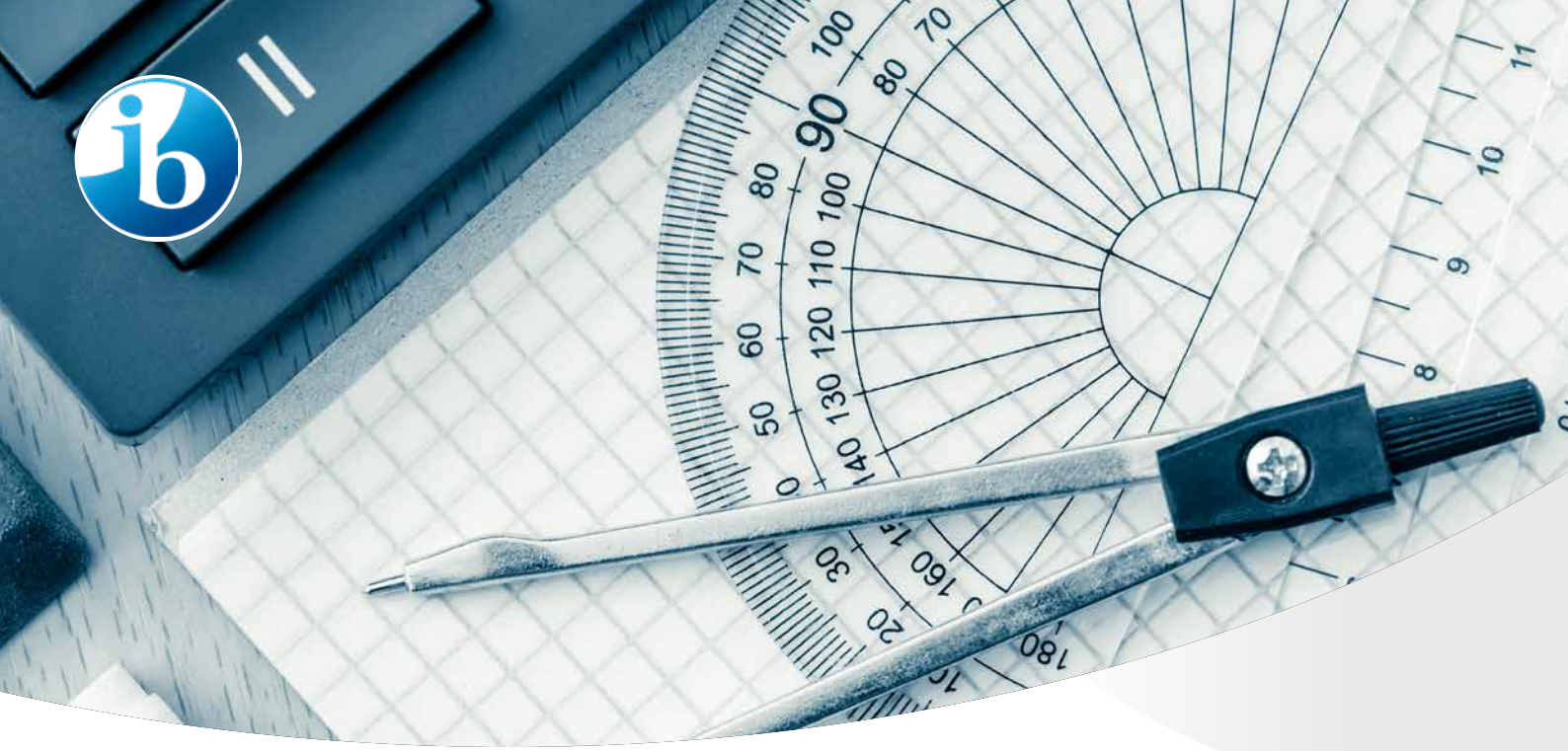

MATHS APPLICATIONS & INTERPRETATIONS

INTERNATIONAL BACCALAUREATE

WHY SHOULD I STUDY IB MATHS APPLICATIONS & INTERPRETATIONS?

Pupils who choose applications and interpretation at Standard Level or Higher Level should enjoy seeing Mathematics used in real-world contexts and to solve real-world problems. Pupils who wish to take Applications and Interpretation at Higher Level will have good algebraic skills and experience of solving real-world problems. They will be pupils who get pleasure and satisfaction when exploring challenging problems and who are comfortable to undertake this exploration using technology.

WHAT WILL I LEARN ABOUT?

This course recognises the increasing role that Mathematics and technology play in a diverse range of fields in a data-rich world. As such, it emphasizes the meaning of Mathematics in context by focusing on topics that are often used as applications or in mathematical modelling. To give this understanding a firm base, this course also includes topics that are traditionally part of a pre-university mathematics course such as calculus and statistics. The course makes extensive use of technology to allow students to explore and construct mathematical models. Mathematics: Applications and Interpretation will develop mathematical thinking, often in the context of a practical problem and using technology to justify conjectures.

HOW WILL I BE ASSESSED?

External assessment. Paper 1; Compulsory short-response questions. Paper 2; Compulsory extended-response questions. Paper 3 (Higher Level only); Two compulsory extended response problem-solving questions. Mathematical exploration: This is a piece of written work that involves investigating an area of Mathematics.

WHAT SKILLS WILL I DEVELOP?

The course helps students to understand the value of systematic approaches, how to analyse complex real-world contexts, how to communicate this concisely and precisely and understand the implications of conclusions.

WHERE COULD THIS SUBJECT TAKE ME IN THE FUTURE?

Applications and Interpretation may be a beneficial choice for pupils considering careers in, for example, finance, planning, healthcare systems or coding, tourism industries, the technology industry, social informatics, or urban planning.