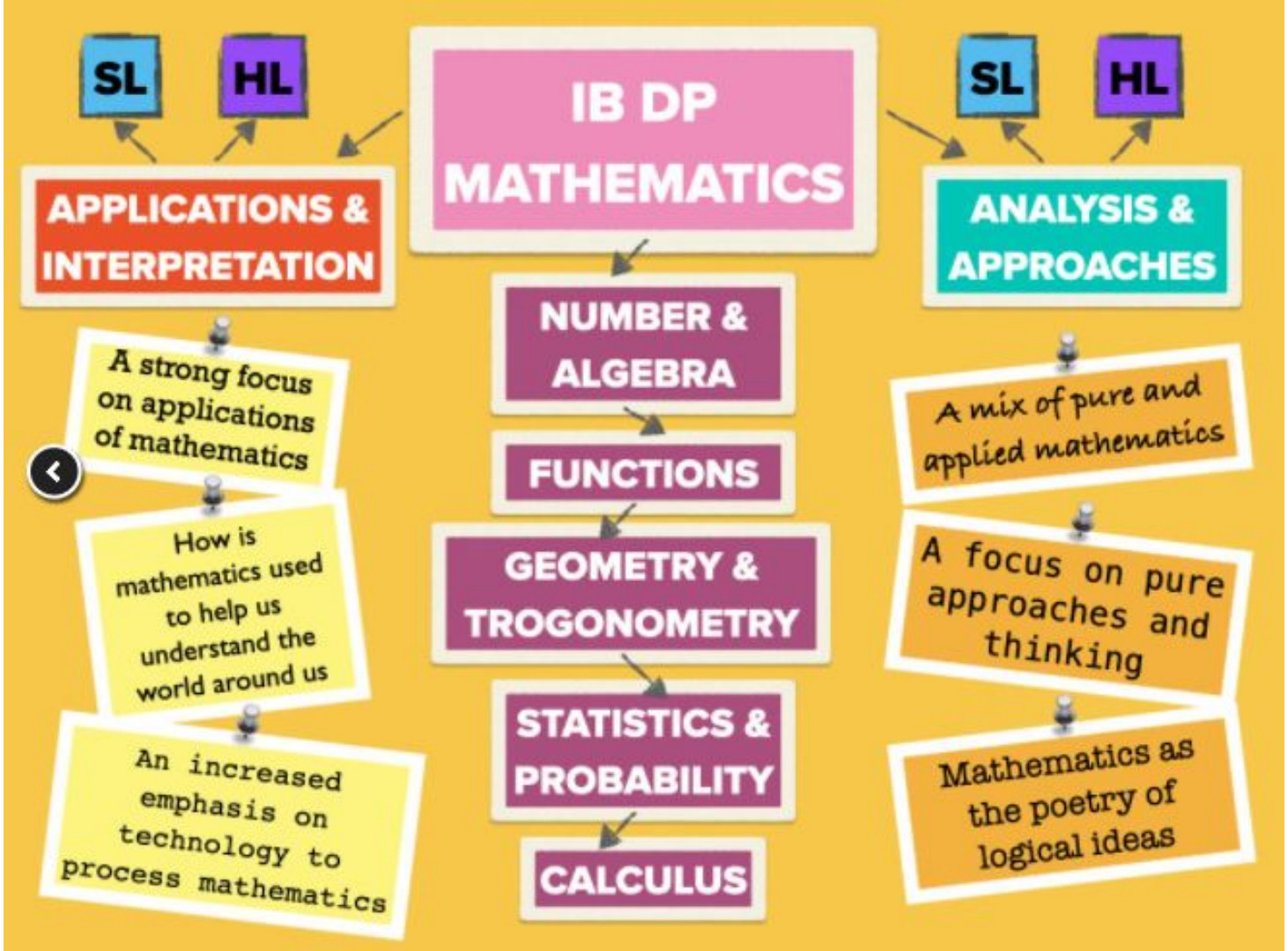
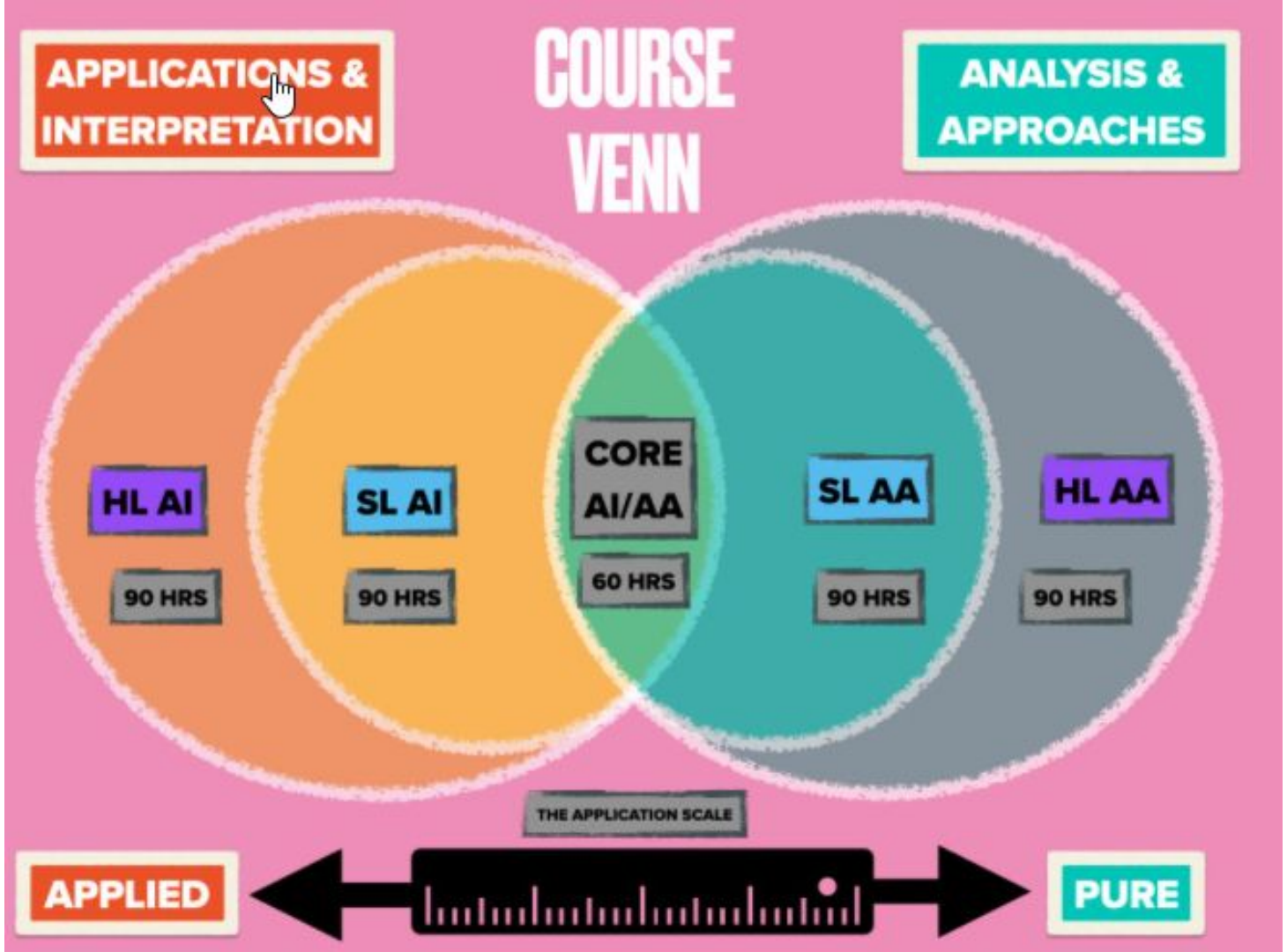
STARTING THE IB DIPLOMA?

IB DIPLOMA MATHEMATICS

Which course to choose?


IB DP MATHEMATICS
SL
HL
APPLICATIONS & INTERPRETATION
A strong focus on applications of mathematics
How is mathematics used to help us understand the world around us
An increased emphasis on technology to process mathematics
NUMBER & ALGEBRA
FUNCTIONS
GEOMETRY & TROGONOMETRY
STATISTICS & PROBABILITY
CALCULUS
SL
HL
ANALYSIS & APPROACHES
A mix of pure and applied mathematics
A focus on pure approaches and thinking
Mathematics as the poetry of logical ideas


APPLICATIONS & INTERPRETATION
COURSE VENN
ANALYSIS & APPROACHES
HL AI
90 HRS
SL AI
90 HRS
CORE AI/AA
60 HRS
SL AA
90 HRS
HL AA
90 HRS
THE APPLICATION SCALE
APPLIED
PURE

WHAT'S THE SAME?, WHAT'S DIFFERENT?

THE SAME

Mathematics is Mathematics! It is still the same subject

Both based on the 5 main topics, **Number & Algebra, Functions, Geometry & Trigonometry, Statistics & Probability** and **Calculus**

Both underpinned by same **key concepts, aims** and **objectives**

Internal Assessment worth 20% with the same criteria

60 Hours of common content between the 2 courses

WHAT'S THE SAME?, WHAT'S DIFFERENT?

DIFFERENT

AI - focus on Applied
AA - emphasis on Pure

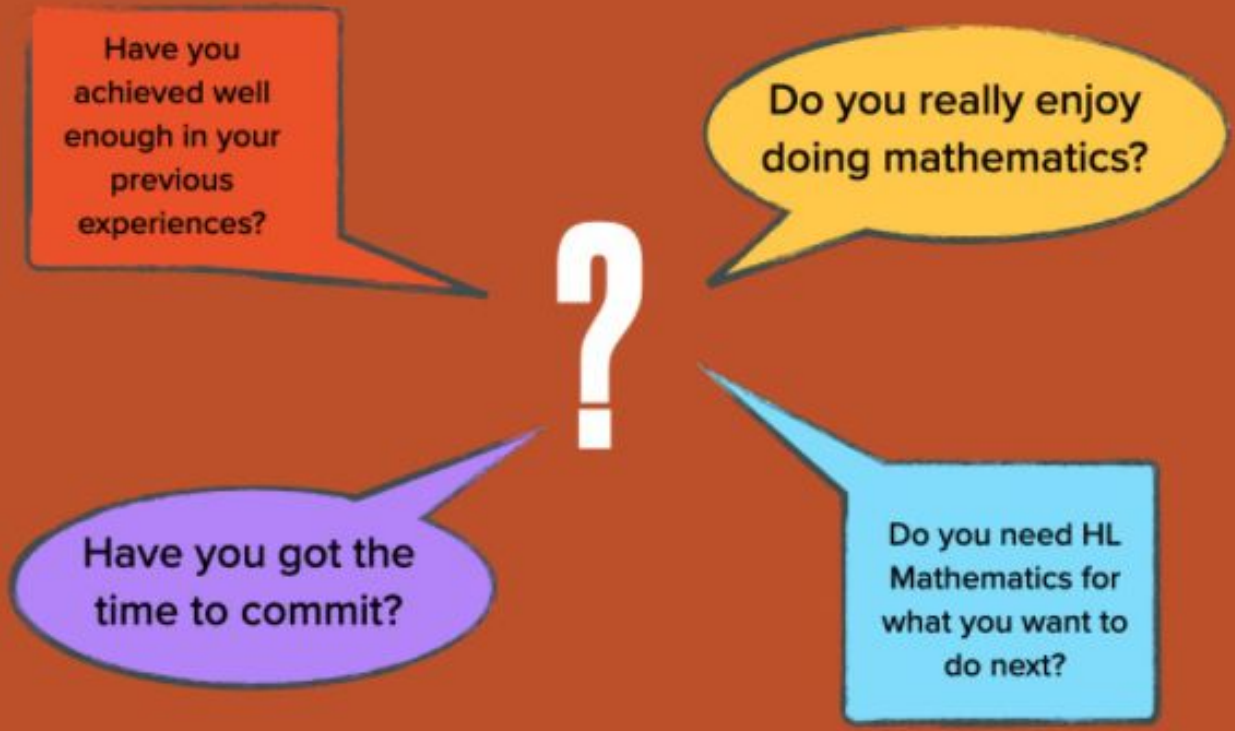
Subtopics and details of the 5 main topics, are different to reflect the different philosophy

AI - Always have your GDC
AA - There is a large element without technology

Internal Assessment may well involve different mathematics

60 Hours of common content might be approached differently

THE HL/SL DIVIDE - IS HL FOR YOU?



WHAT DO YOU WANT TO DO NEXT?

APPLICATIONS & INTERPRETATION HL

SOME SCIENCES AND DATA SCIENCE
MANY ENGINEERING AND COMPUTER SCIENCE COURSES

APPLICATIONS & INTERPRETATION SL

BROAD APPLICATIONS WHERE MATHEMATICS IS NOT A MAIN FOCUS

THIS IS JUST A GUIDE & YOU SHOULD CHECK...

HL **ANALYSIS & APPROACHES**

ENGINEERING, COMPUTER SCIENCE, MATHS AND PHYSICS - KEEPS MOST OPTIONS OPEN

SL **ANALYSIS & APPROACHES**

SOME MEDICINE AND SCIENCE COURSE NOT REQUIRING HL - MAY KEEP SOME OPTIONS OPEN

IN SUMMARY...

Both courses are equally rigorous and prepare you for being successful in calculus in college and beyond...

Pick Analysis if you like theoretical math (w/ proofs) and are thinking about majoring in math, physics or some engineering majors in college

Pick Applications if you like math applied to real world situations and are thinking about majoring in computer science, many engineering majors, data science, business, social sciences or non–physics pure sciences