BRISBANE GRAMMAR SCHOOL

BGS Learn – leveraging Microsoft technologies to provide targeted learning interventions.

Nick Holland – Director of Learning Analytics

Some context:

Inner city boys' school population approxim

Strong tradition of academic achiev

Focus

(academic, wellbeing, cocurricular).

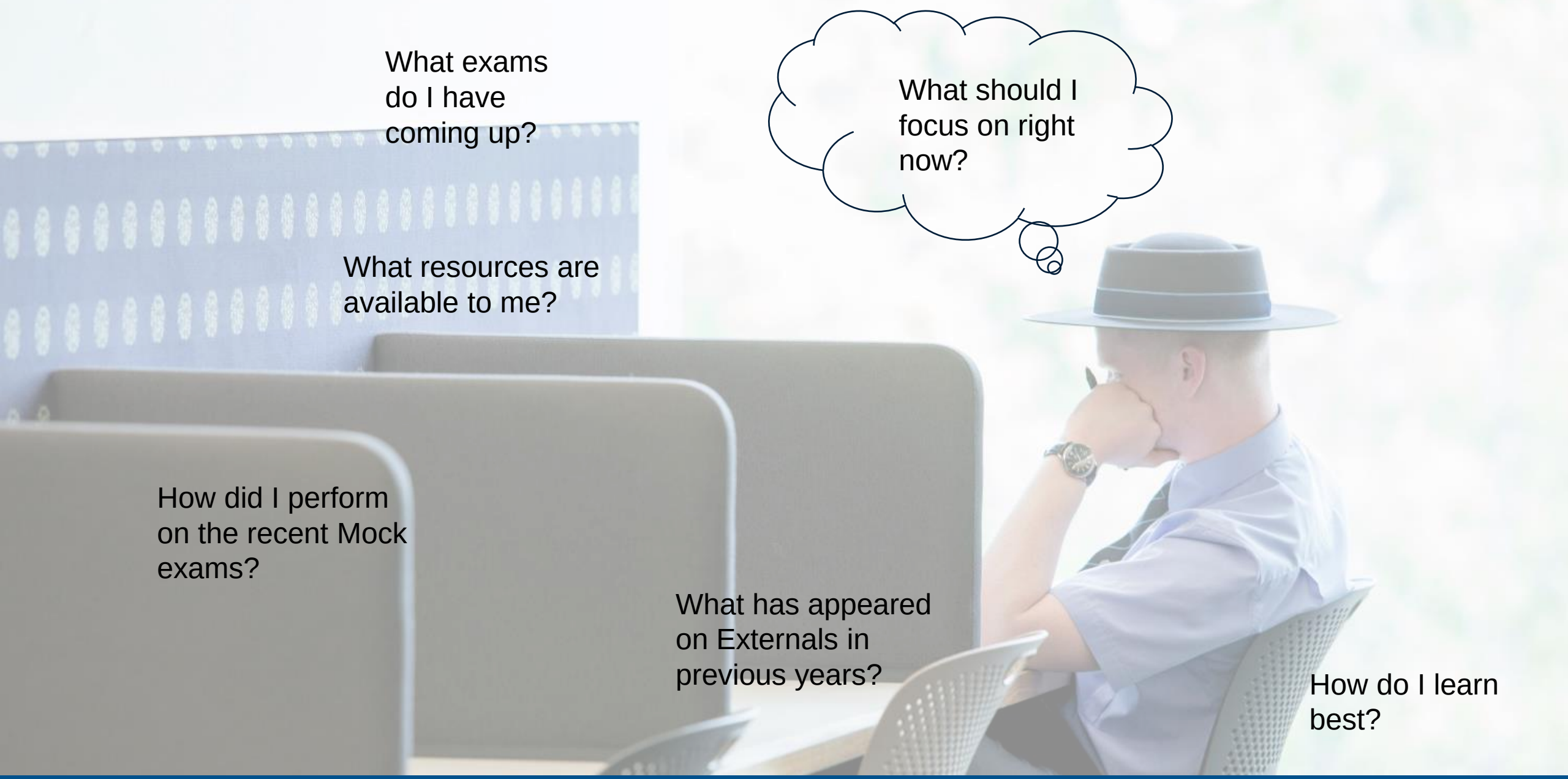
- advanced in terms of Secondary education – far behind

cations represented here at CDAO.

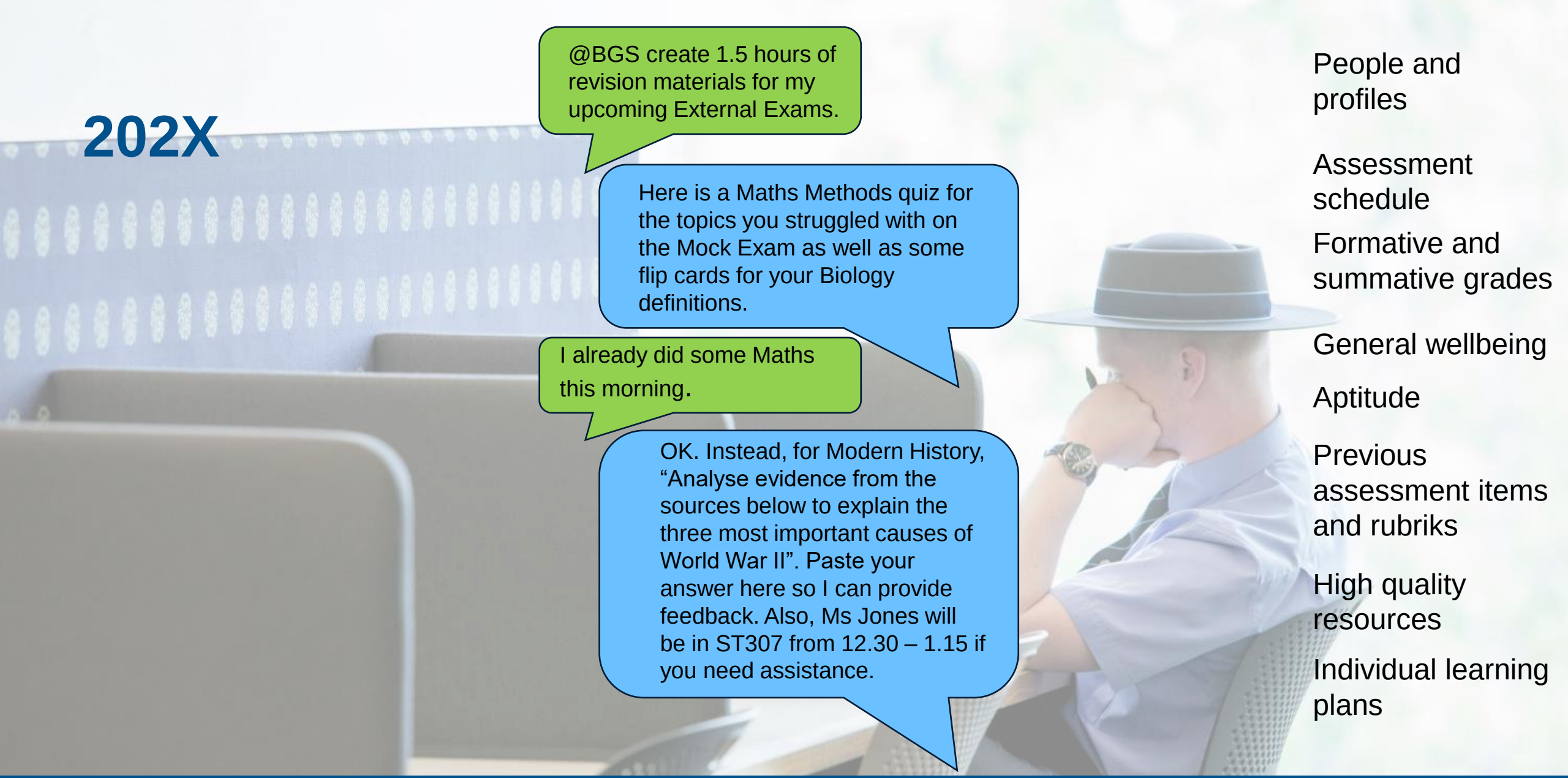
So, hopefully today….

You learn something about the use of data in a Secondary Education context.

I leave this afternoon with a suggestion/ solution/ word of warning.


What exams do I have coming up?
What should I focus on right now?
What resources are available to me?
How did I perform on the recent Mock exams?
What has appeared on Externals in previous years?
How do I learn best?

202X



People and profiles

Assessment schedule

Formative and summative grades

General wellbeing

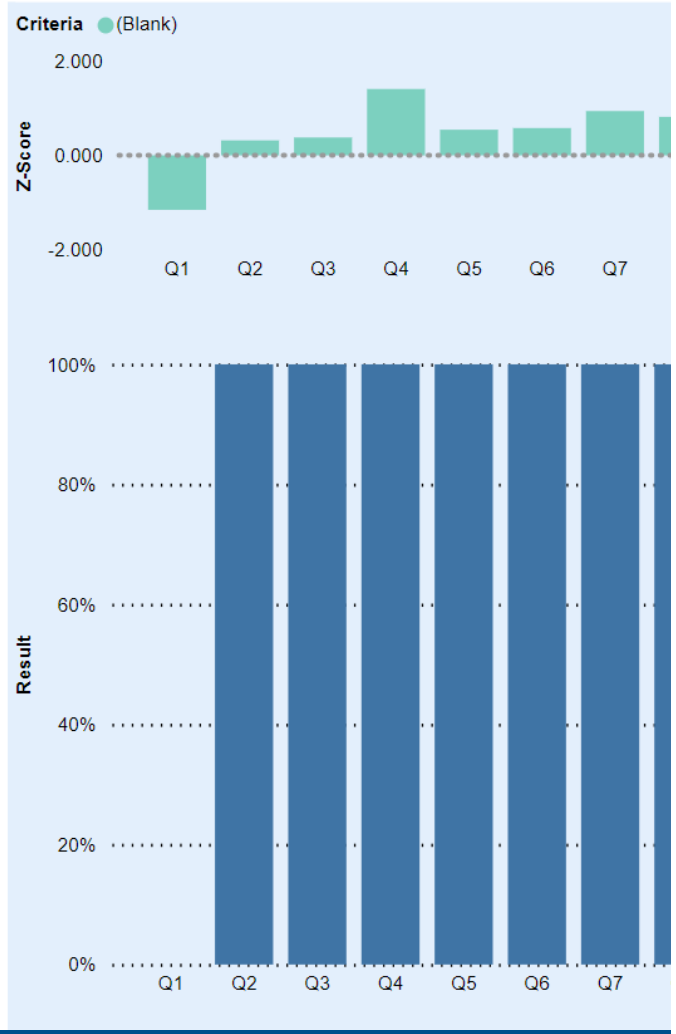
Aptitude

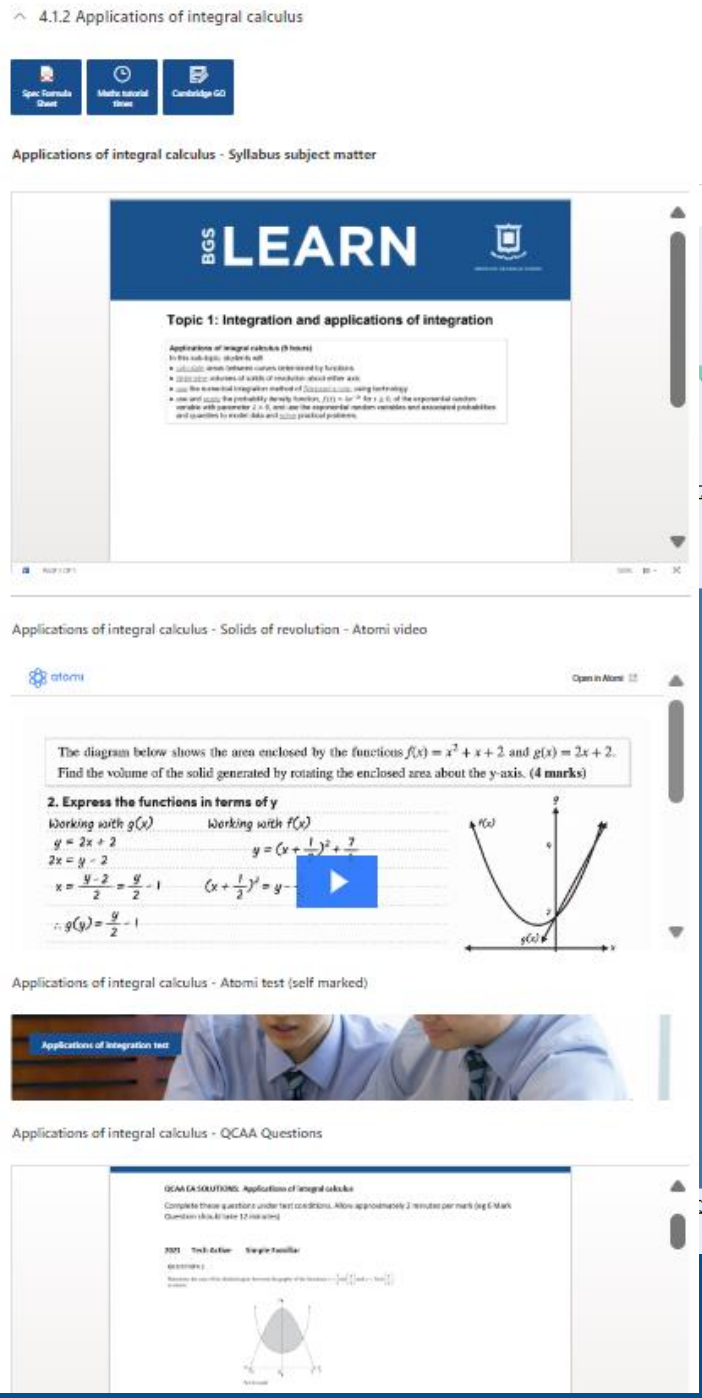
Previous assessment items and rubriks

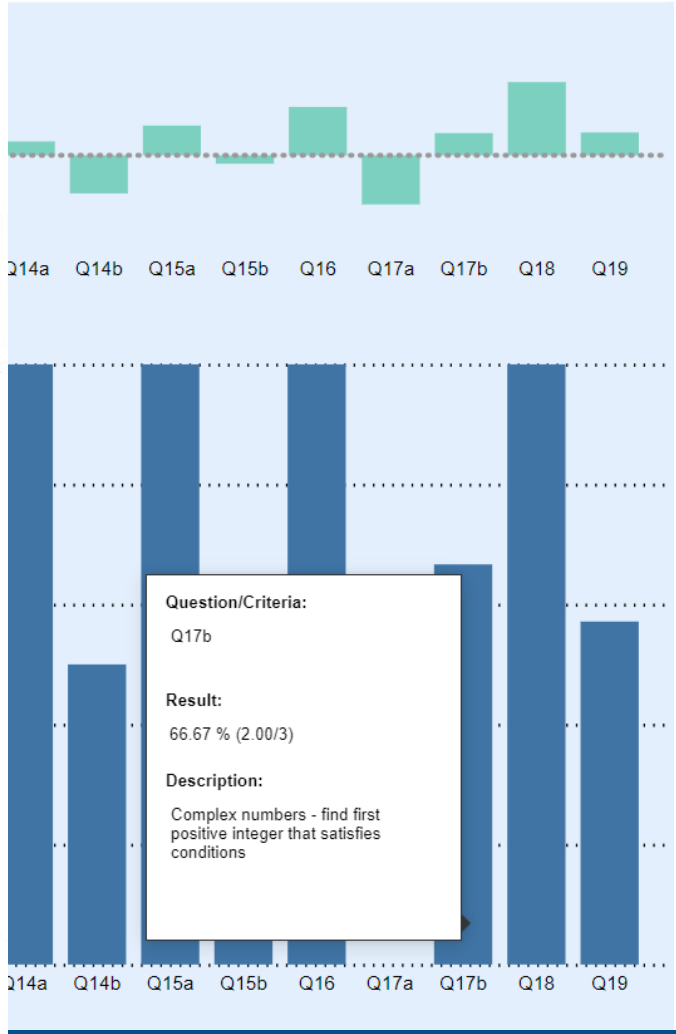
High quality resources

Individual learning plans

2023

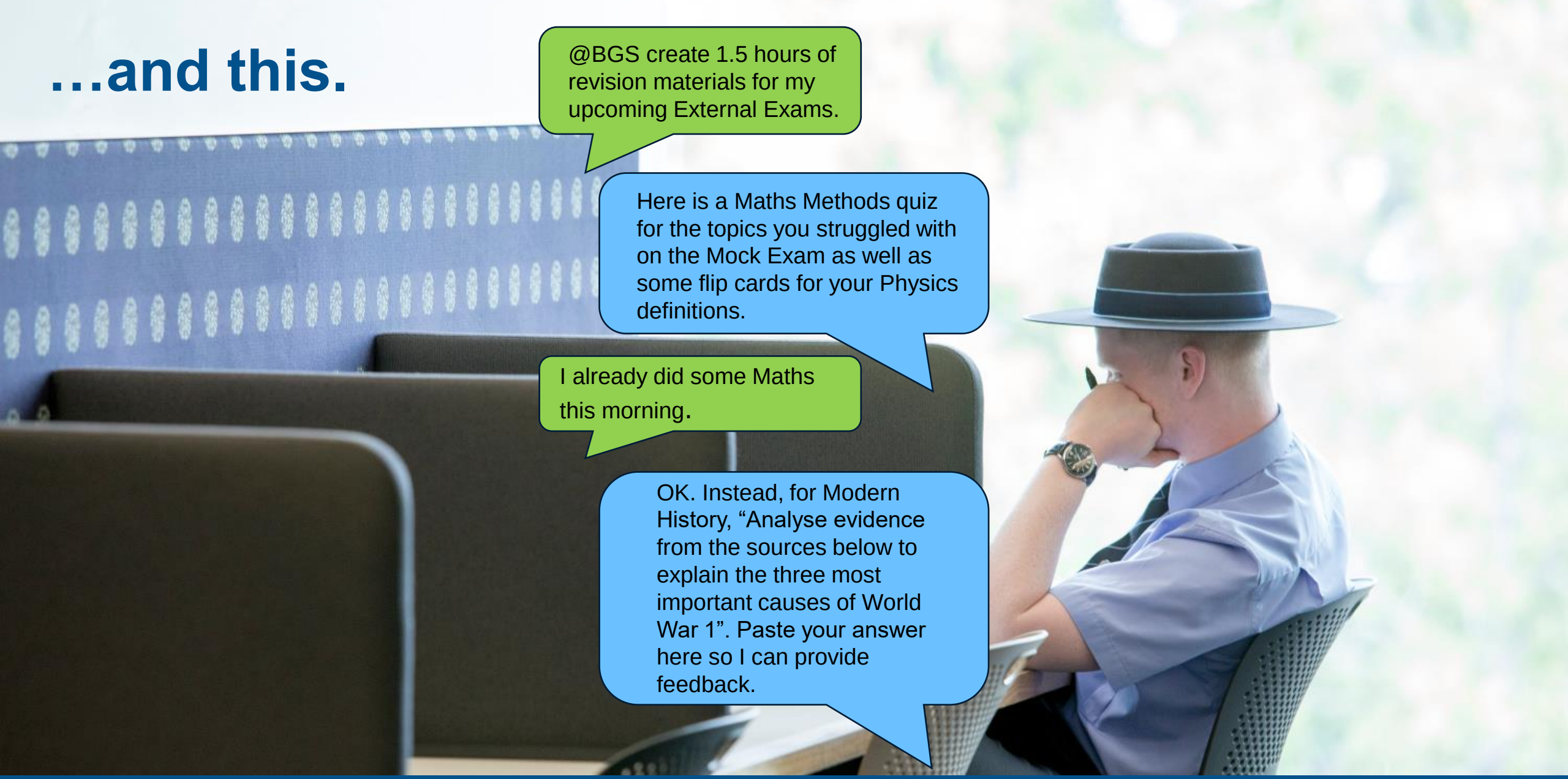

Criteria (Blank)
Z-Score
2.000
0.000
-2.000
Q1 Q2 Q3 Q4 Q5 Q6 Q7
Result
100%
80%
60%
40%
20%
0%
Q1 Q2 Q3 Q4 Q5 Q6 Q7


4.1.2 Applications of integral calculus
Applications of integral calculus - Syllabus subject matter
BGS LEARN
Topic 1: Integration and applications of integration
Applications of integral calculus - Solids of revolution - Atomi video
The diagram below shows the area enclosed by the functions $f(x) = x^2 + x + 2$ and $g(x) = 2x + 2$.
Find the volume of the solid generated by rotating the enclosed area about the y-axis. (4 marks)
2. Express the functions in terms of y
Working with g(x)
Working with f(x)
Applications of integral calculus - Atomi test (self marked)
Applications of integration test
Applications of integral calculus - QCAA Questions


Q14a Q14b Q15a Q15b Q16 Q17a Q17b Q18 Q19
Question/Criteria:
Q17b
Result:
66.67 % (2.00/3)
Description:
Complex numbers - find first positive integer that satisfies conditions
Q14a Q14b Q15a Q15b Q16 Q17a Q17b Q18 Q19

Somewhere between this..

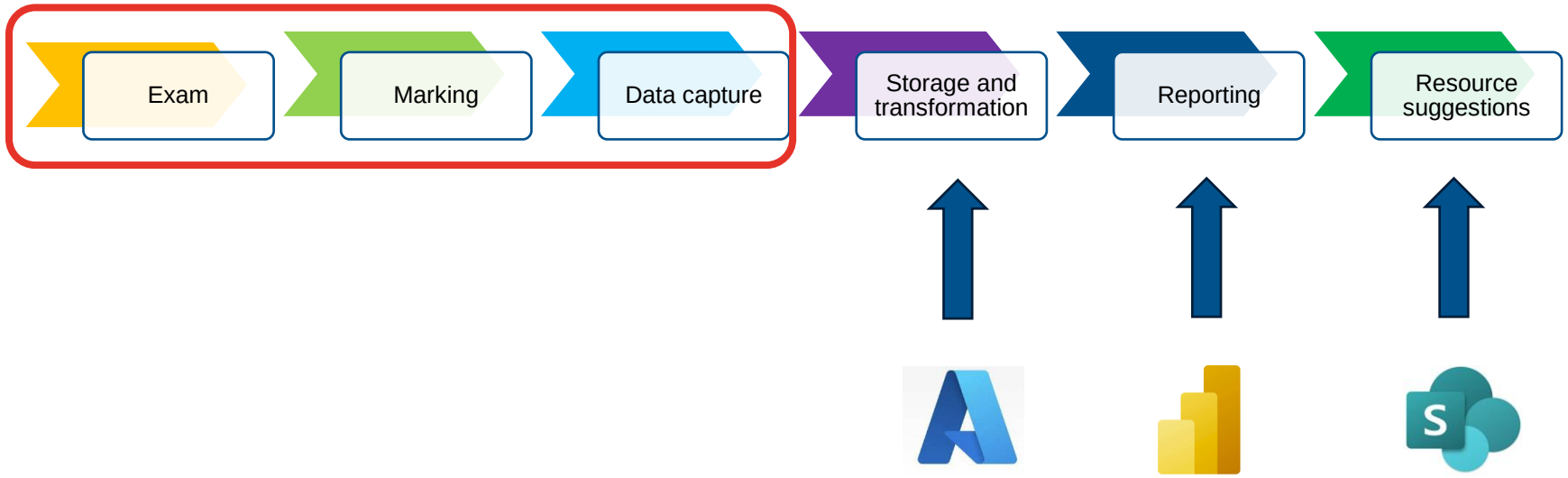
…and this.


@BGS create 1.5 hours of revision materials for my upcoming External Exams.
Here is a Maths Methods quiz for the topics you struggled with on the Mock Exam as well as some flip cards for your Physics definitions.
I already did some Maths this morning.
OK. Instead, for Modern History, “Analyse evidence from the sources below to explain the three most important causes of World War 1”. Paste your answer here so I can provide feedback.

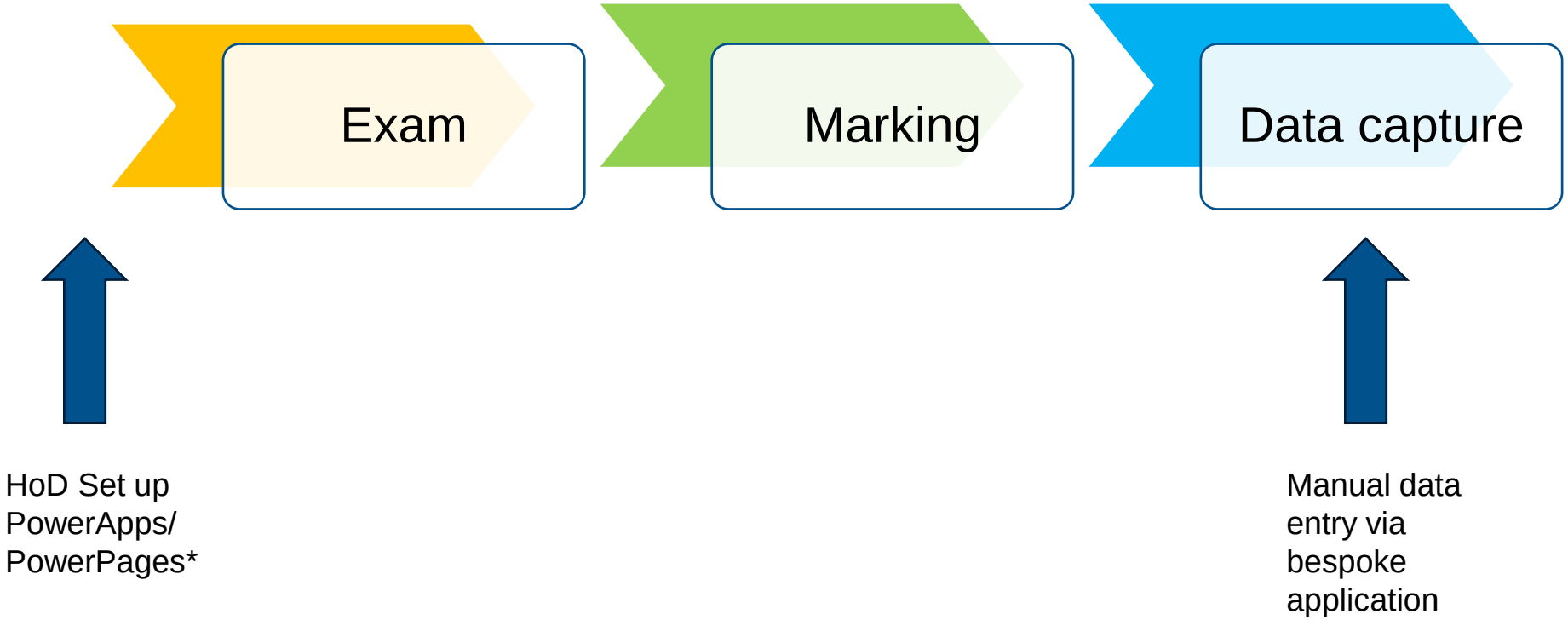
Short term problem

How do you efficiently ingest data created under paper based examination conditions?

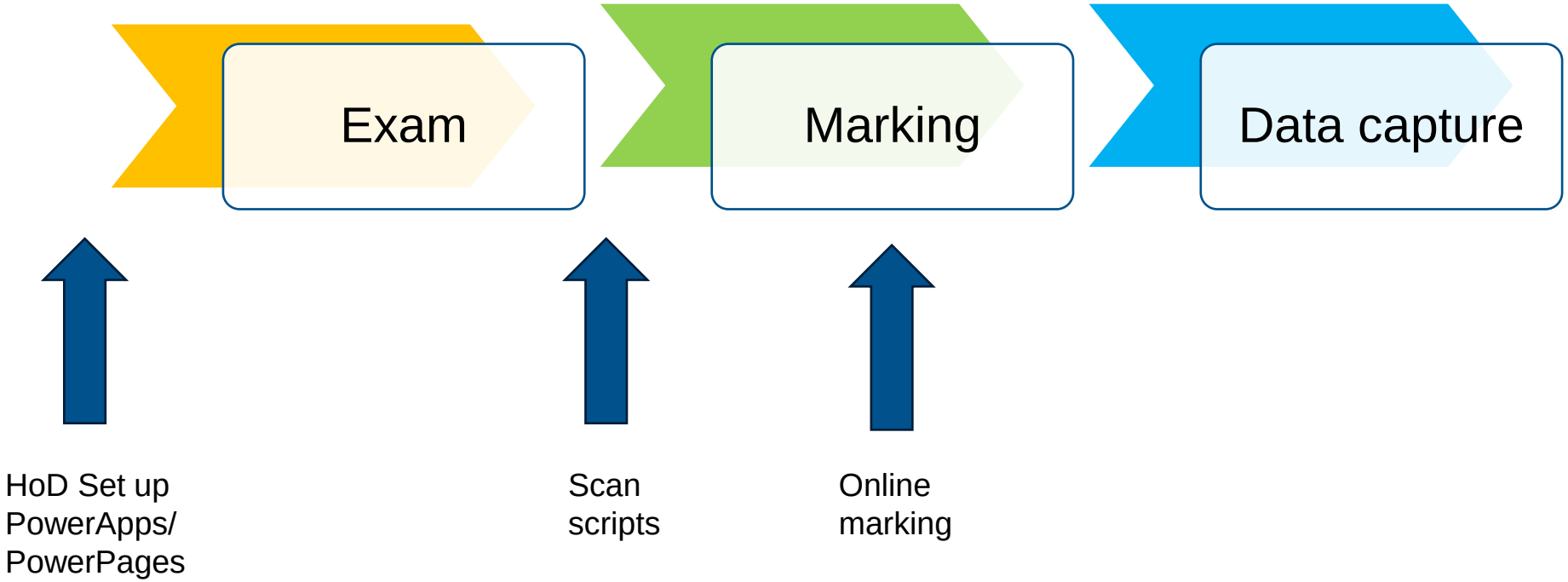
Data - process map



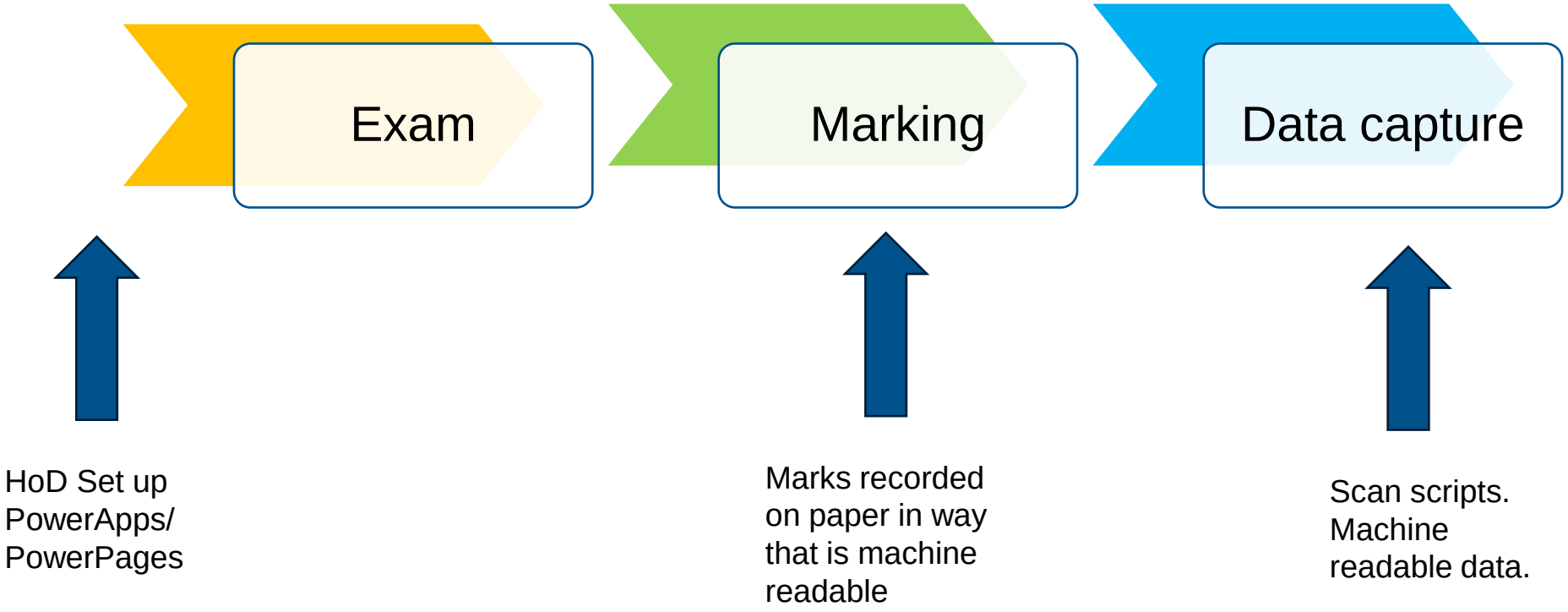
Option 1 – manual teacher input



Option 2 – digitise scripts prior to marking



Option 3 – machine readable marking



Where to next?

Solve the “paper to digital” problem. Gen AI has made paper based assessments more, not less, likely.

Lay the data foundations to take advantage of future developments in AI

- Quantitative data sets
- Resource data sets

Thank you