

Assessment in Informatics

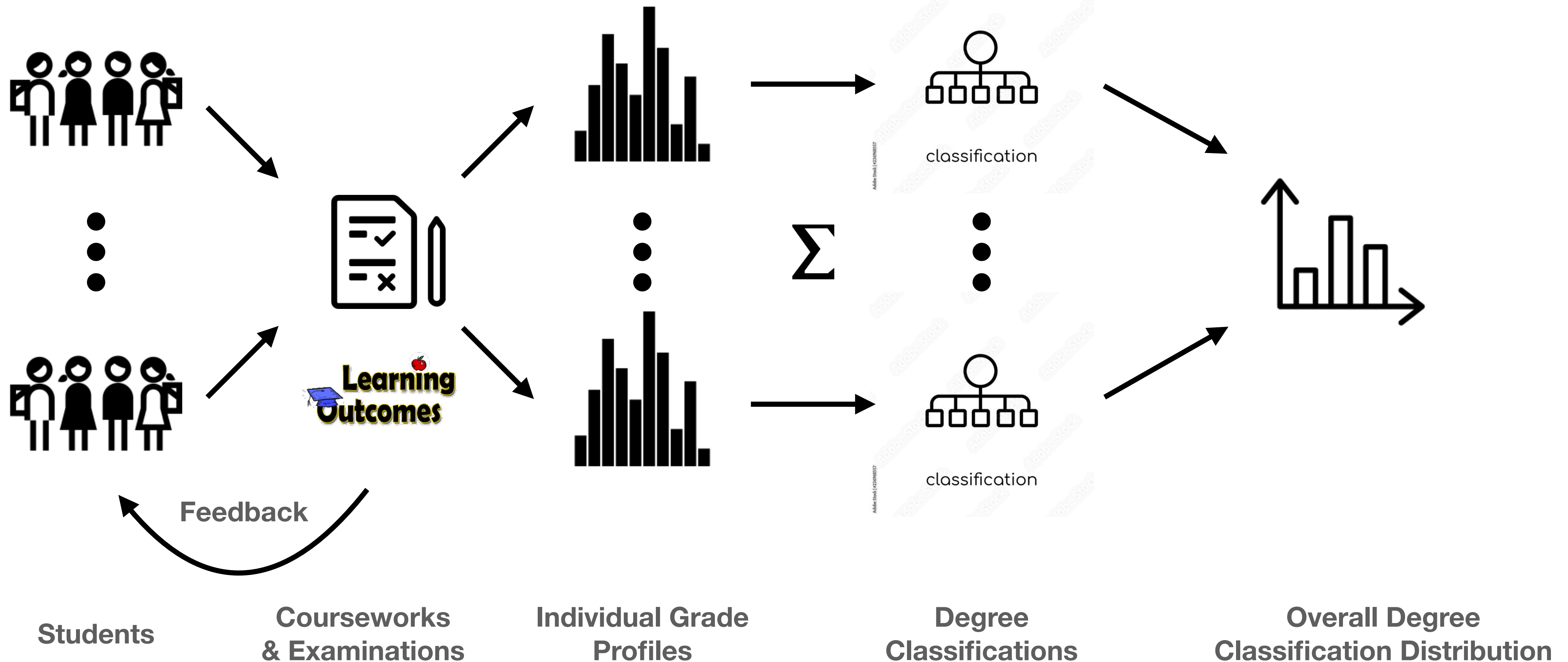
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Overview

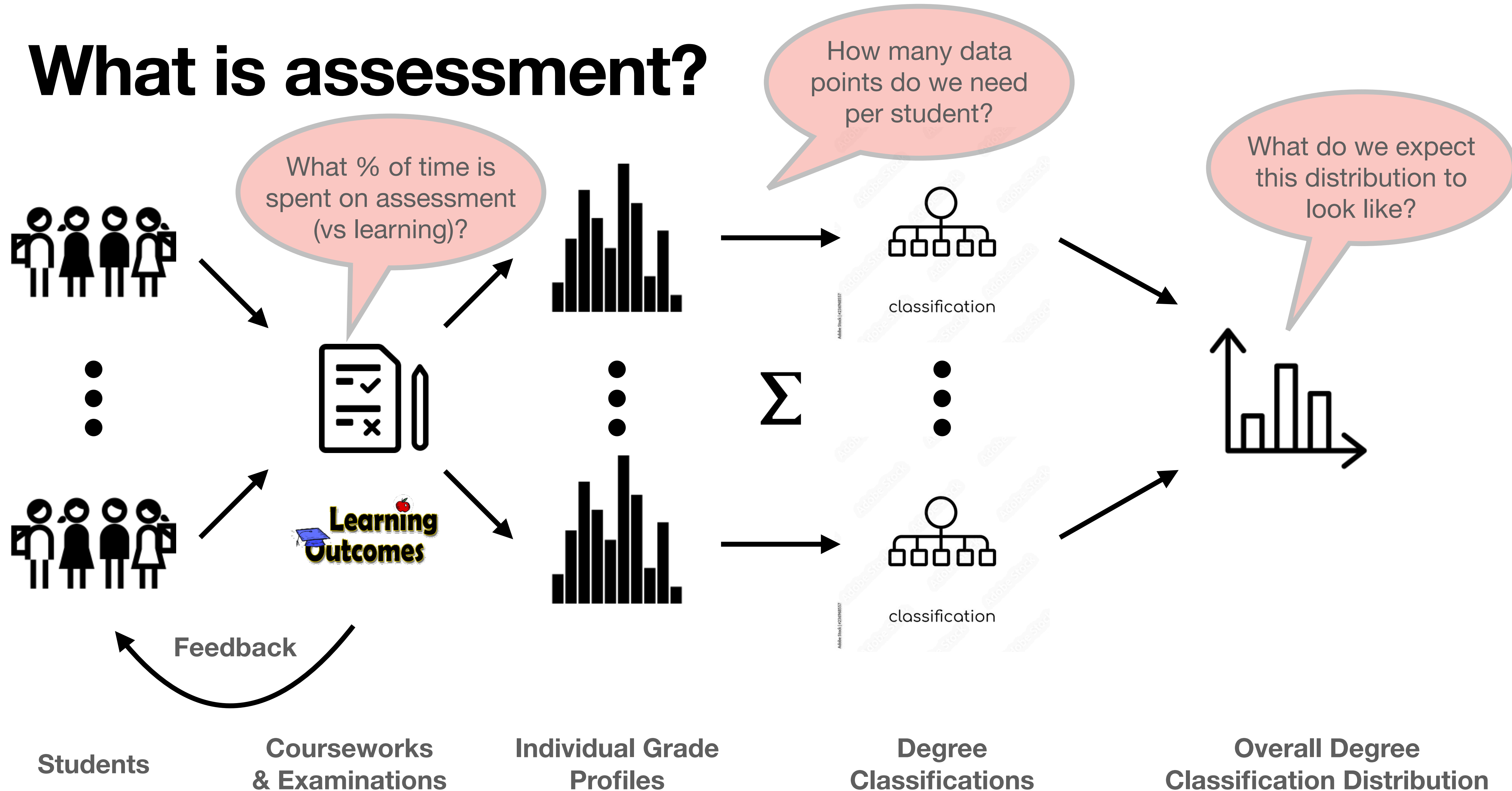
- Extended Common Marking Scheme
- Assessing learning outcomes efficiently
- Quantity of assessment
- Quality of feedback
- Communication with your students (and other course markers?)
- Adapting assessment to both ECMS and SCQF levels

Assessment & Feedback

What is assessment?



What is assessment?



Percentage of Time for Assessment

What it should be according to SCQF

- **20 credit** point course → **200 notional hours**
- 20% (40 hours) for programme level activities: **160 hours left in reality**
- **20% (40 hours) for assessment**
- 60% (120 hours) for learning activities
 - Contact time
 - Directed study
 - Independent study **including assessment preparation**

Assessment Equivalence Tariff from Ulster University

Do we need to introduce
such a tariff?

20 Credit Module		
200 notional learning hours (comprises contact time, directed study, independent study including assessment preparation)	Assessment learning hours/preparation constitutes approx. 20% of notional module learning hours	40 hours notional assessment work hours 4000 word count equivalence

Assessment equivalence examples:

Assessment Type	WCE	<u>Notional</u> Assessment Work Hours	Credits
Written essay	1000 words	10 h	5
Exam / test	1 hour	10 h	5
Reflective journal/log	1000 words	10 h	5
Lab/practical report	1000 words	10 h	5
Group assignment	750 words per member	10 h	5
Individual presentation	15 minutes	20 h	10
Viva/oral exam	20-30 minutes	20 h	10
Small Group presentation	10 minutes per member	20 h	10
Portfolio of evidence	6000 words	40 h	20
Research proposal, small project	4000 words	40 h	20
Research project/dissertation	8000 words	80 h	40

Review of our Approach to Assessment

Fact finding mission

- Students are regularly **complaining** about the volume of assessment
 - Students report (credibly) much more **hours** spent on assessment
- Each students has to submit around **50 pieces of assessment per year**
- We rank at the **bottom of the NSS** (literally!) for “Feedback & Assessment”
- We find it hard to decluster coursework deadlines (**no more free dates**)
- Teaching staff are **struggling** to turn around marking
- We are **struggling** to find enough teaching support staff for marking

**How effective is our
assessment?**

Reminder

Descriptor for a mark in the “A” range

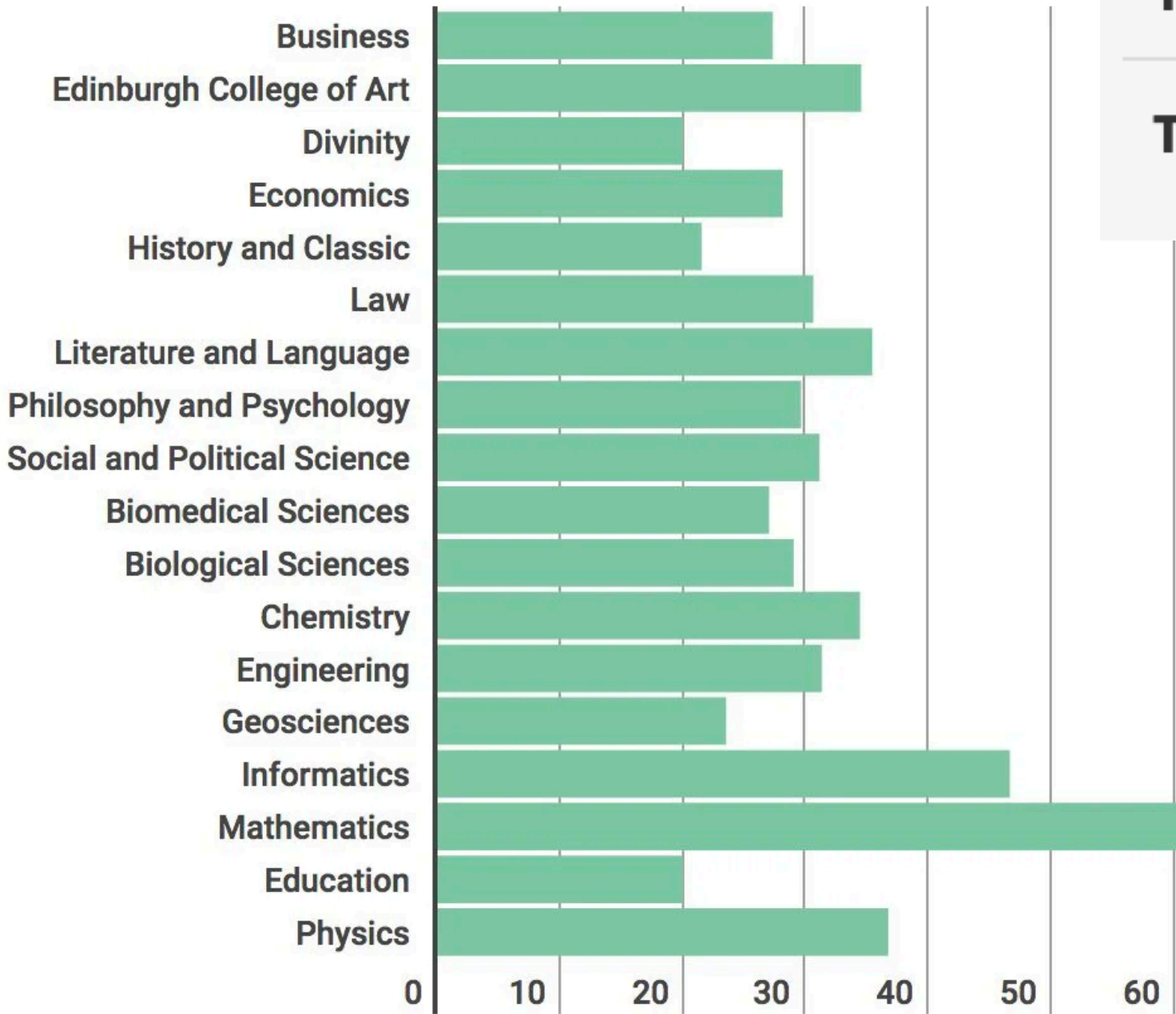
“Outstanding in some respects, the work is often beyond what is expected of a competent student at their level of study.

Demonstrates that the student is actively extending their knowledge and capacity well beyond required materials and making new connections independently: for example, by showing a strong grasp of a range of related materials that are optional or not directly provided, or by demonstrating unusual creativity, depth of analysis, or synthesis with other areas of study.”



Revealed: The degrees at Edinburgh that award the most firsts

In the news: 2016/17

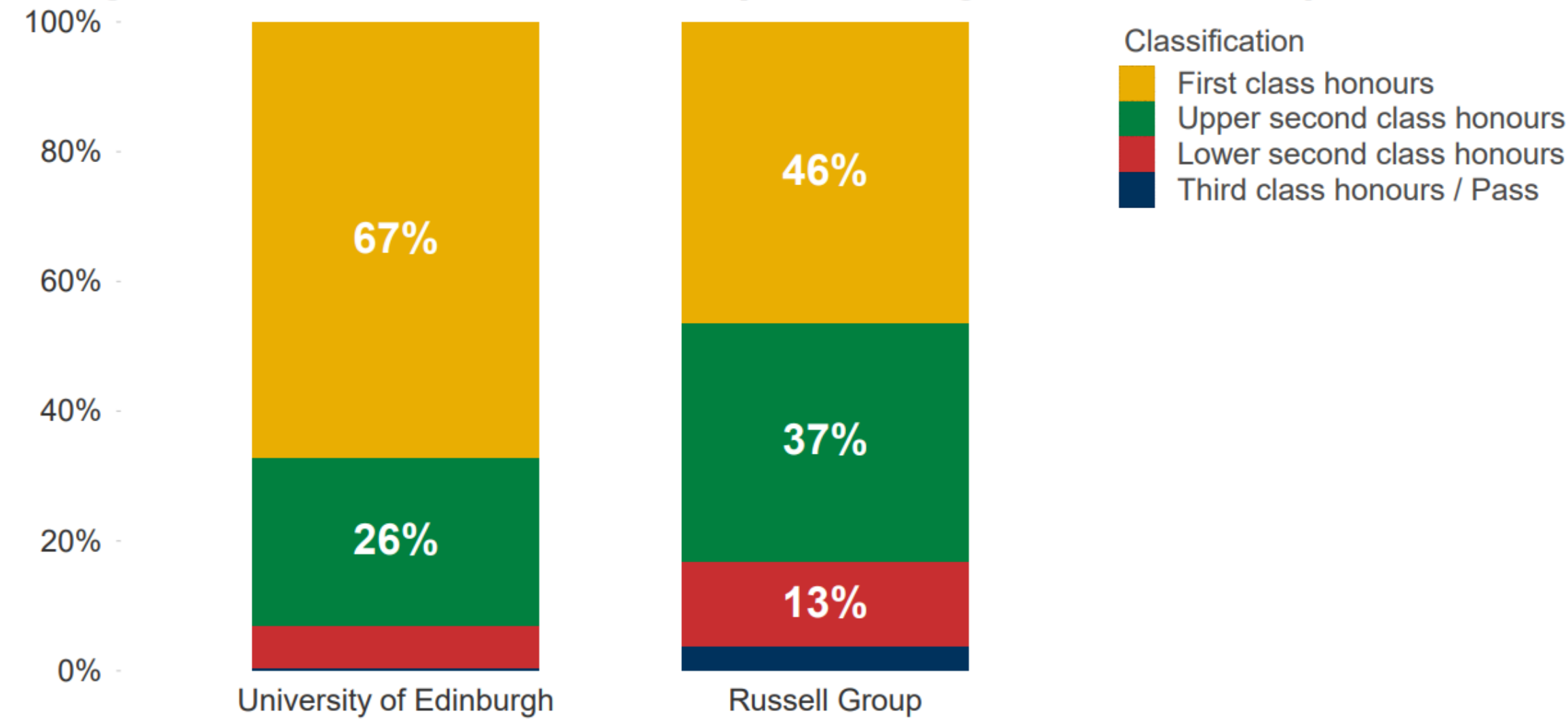


4th Year Results 2020/21

Summary for degree classifications awarded:

Classification/Award	No. of Students	Percentage of Total
First	107	66%
2:1	47	29%
2:2	6	4%
Third	1	1%
Total	161	100

Undergraduate classifications for University of Edinburgh and Russell Group, 2017/18



Feedback

What we're up against

- Students don't always **recognise feedback**
- Students often expect feedback of proportional **volume** to the volume of assessment
 - A few bullet points on a large piece of assessment will be perceived as disappointing, irrespective of the quality of the feedback
 - Students are often expecting **personalised feedback**
- Students often don't distinguish between **return of marks** and **feedback**
- Students expect their feedback to show them "how to achieve 100%"
 - Expect sample solutions, even for exams
 - Difficult in the light of the 70-100% range of the ECMS

Feedback & Assessment

Where We Have To Improve

- Rethink **volume** and **quality** of assessment
 - What would you do if you had 30mins per student to decide on their final course grade? What would be your strategy?
- **Design feedback** into the course, rather than bolt it on
 - Quality feedback designed to **improve learning**
- Make students **recognise feedback** whenever it is delivered
 - Silly badge?



Extended Common Marking Scheme

Overview

		Honours Class	Mark (%)	Grade	Non-Honours Description
Bonus Range		I	90-100	A1	Excellent
		I	80-89	A2	Excellent
		I	70-79	A3	Excellent
Pass Range		II.1	60-69	B	Very Good
		II.2	50-59	C	Performance at a level showing the potential to achieve at least a lower second class honours degree
		III	40-49	D	Pass, may not be sufficient for progression to an honours programme
Fail Range		Fail	30-39	E	Marginal Fail
		Fail	20-29	F	Clear Fail
		Fail	10-19	G	Bad Fail
		Fail	0-9	H	Bad Fail

Range Descriptors

Grade / Mark / Descriptor

A1 / 90-100 / Excellent (Outstanding)

Often faultless. The work is well beyond that expected at the appropriate level of study. See also the guidance above.

A2 / 80-89 / Excellent (High)

A truly scholarly and/or professional piece of work, often with an absence of errors. As 'A3' but shows (depending upon the item of assessment): significant personal insight/creativity/originality and/or extra depth and academic maturity in the elements of assessment.

A3 / 70-79 / Excellent

- Knowledge: Comprehensive range of up-to-date material handled in a scholarly and/or professional way.
- Understanding and handling of key concepts: Shows a good command of the subject and current theory.
- Focus on the subject or task: Clear and analytical; fully explores the subject or task.
- Critical analysis and discussion: Shows evidence of deep thinking and/or an appropriately logical and rigorous approach in critically evaluating and integrating the evidence and ideas. Deals confidently with the complexities and subtleties of issues. Shows elements of personal insight/creativity/originality.
- Literature synthesised, analysed and referenced: Comprehensive grasp of the up-to-date literature which is used in a scholarly way.
- Structure: Clear and coherent showing logical, ordered thought. Additionally for code: likely to support re-use. No unused variables or dead code.
- Presentation: Clear and well presented with few, relatively minor flaws. For writing: Accurate referencing; using the correct referencing system. Figures and tables well-constructed and accurate. Good standard of spelling and grammar. Alternatively for code: well-documented, readable code.
- Design of software or experiments: sensible, with appropriate justification.
- Correctness and robustness: Compiles and executes without errors or warnings. Strong evidence of testing and (if appropriate) optimisation. Correct functionality and robust to unexpected input.

The “Bonus” Range

“I got a mark of 70%. Where did I loose marks?”

The “Bonus” Range

“I got a mark of 70%. Where did I loose marks?”

70% is the new 100%!

You got full marks, you just didn't earn any bonus marks.

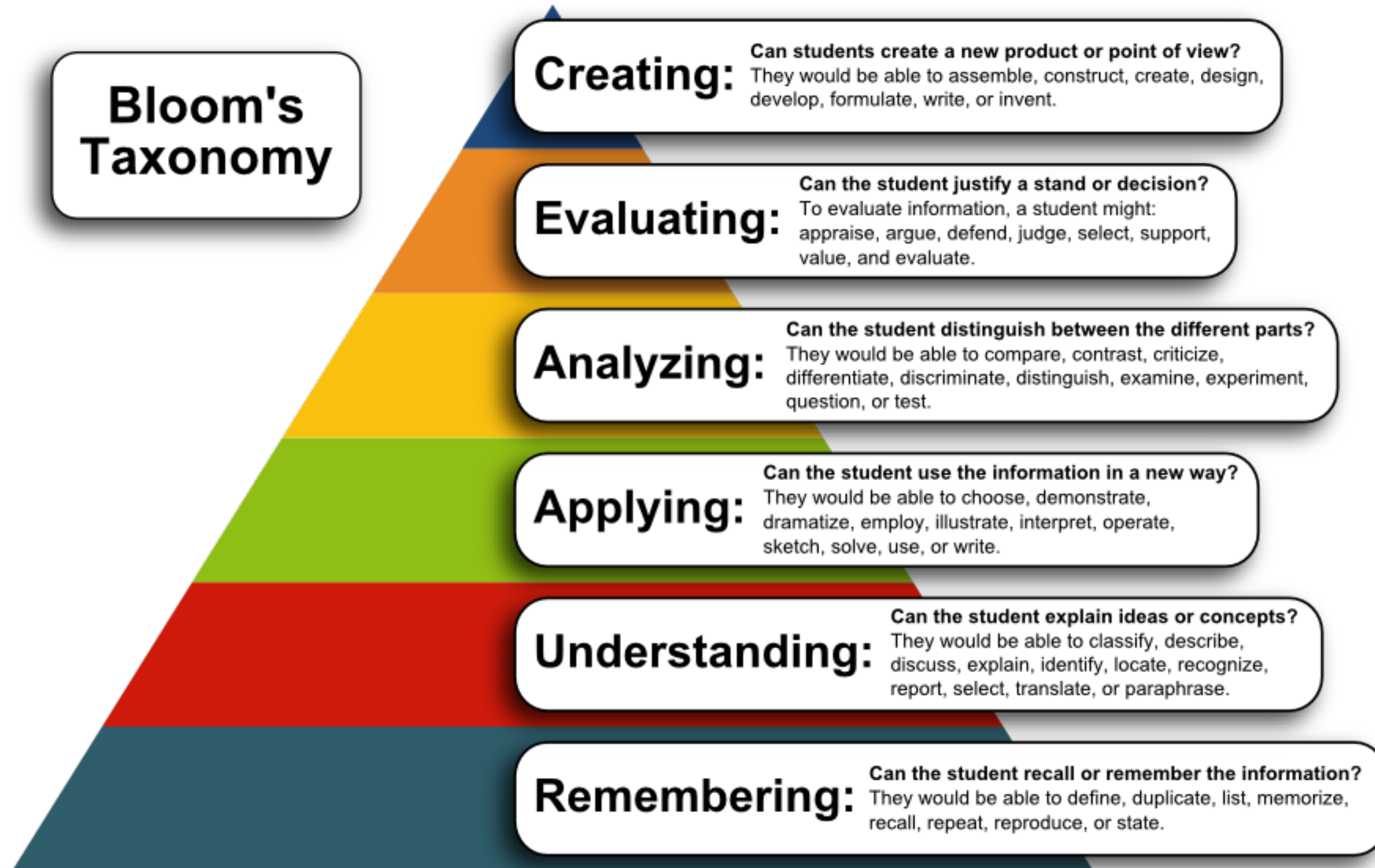
The “Bonus” Range

**“I got a mark of 70%. What do I need to do
in order to get a mark of 100%?”**

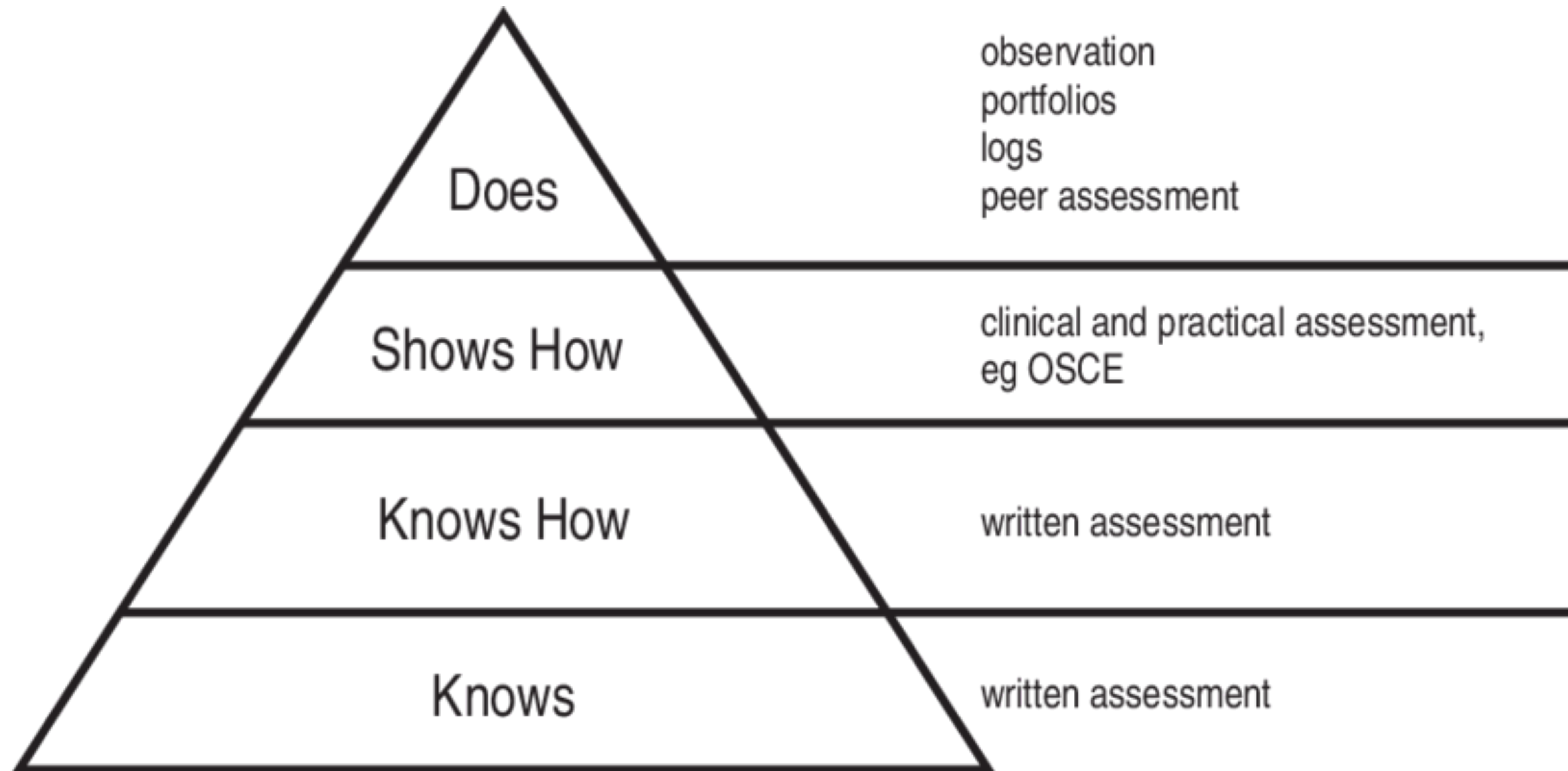
Surprise me!

If I told you what to do, it wouldn't be worth a bonus.

From Learning Outcomes to Assessment



From Learning Outcomes to Assessment



Questions?