

* EDUCATIONAL CYCLE



Assessment is ?



TESTING



ASSESSMENT

The Purpose of...

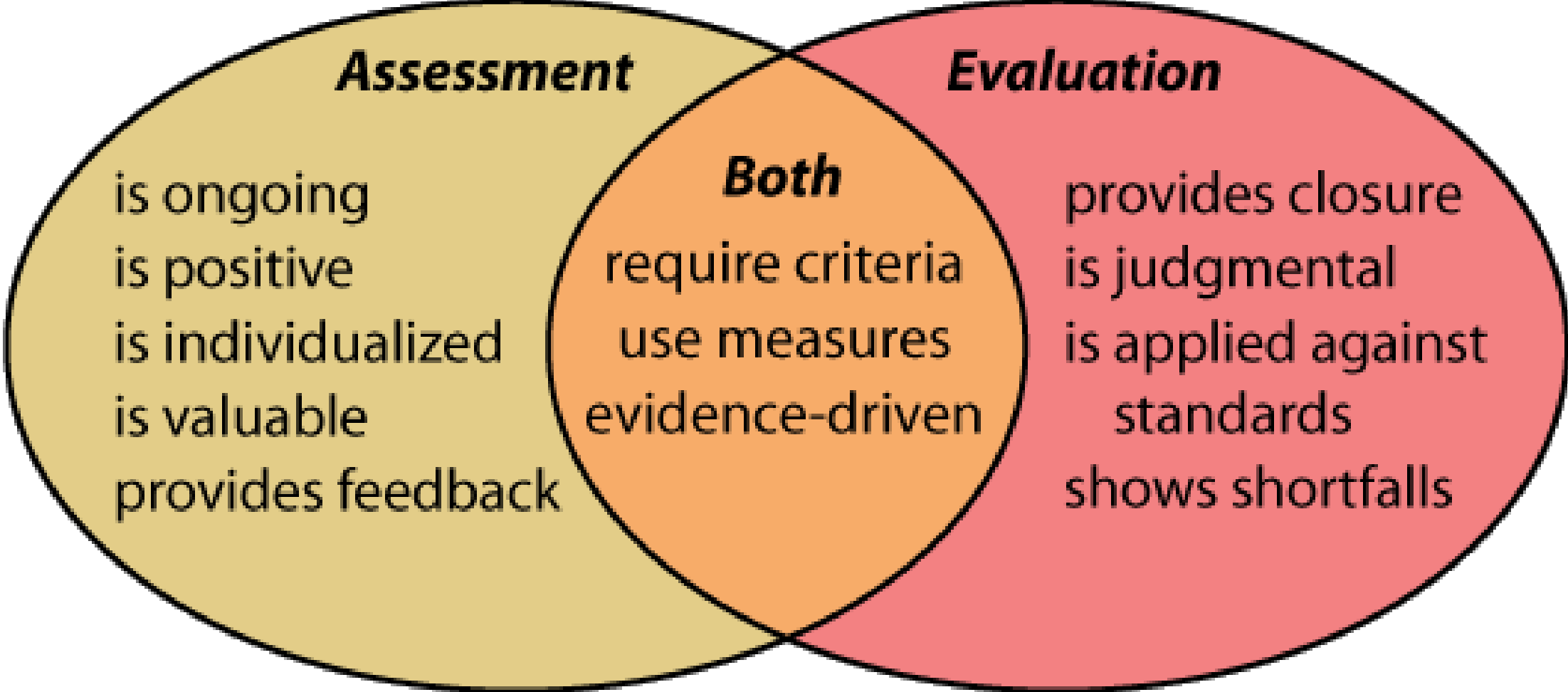
assessment
is to
INCREASE
quality.



evaluation
is to **JUDGE**
quality.

Too short and
not enough
leaves. C-





Assessment Cycle



PURPOSE OF
ASSESSMENT



REVISITING
COMPETEMNCES



TEST BLUEPRINT



ITEM
DEVELOPMENT



TEST
ADMINISTRATION



ITEM ANALYSIS



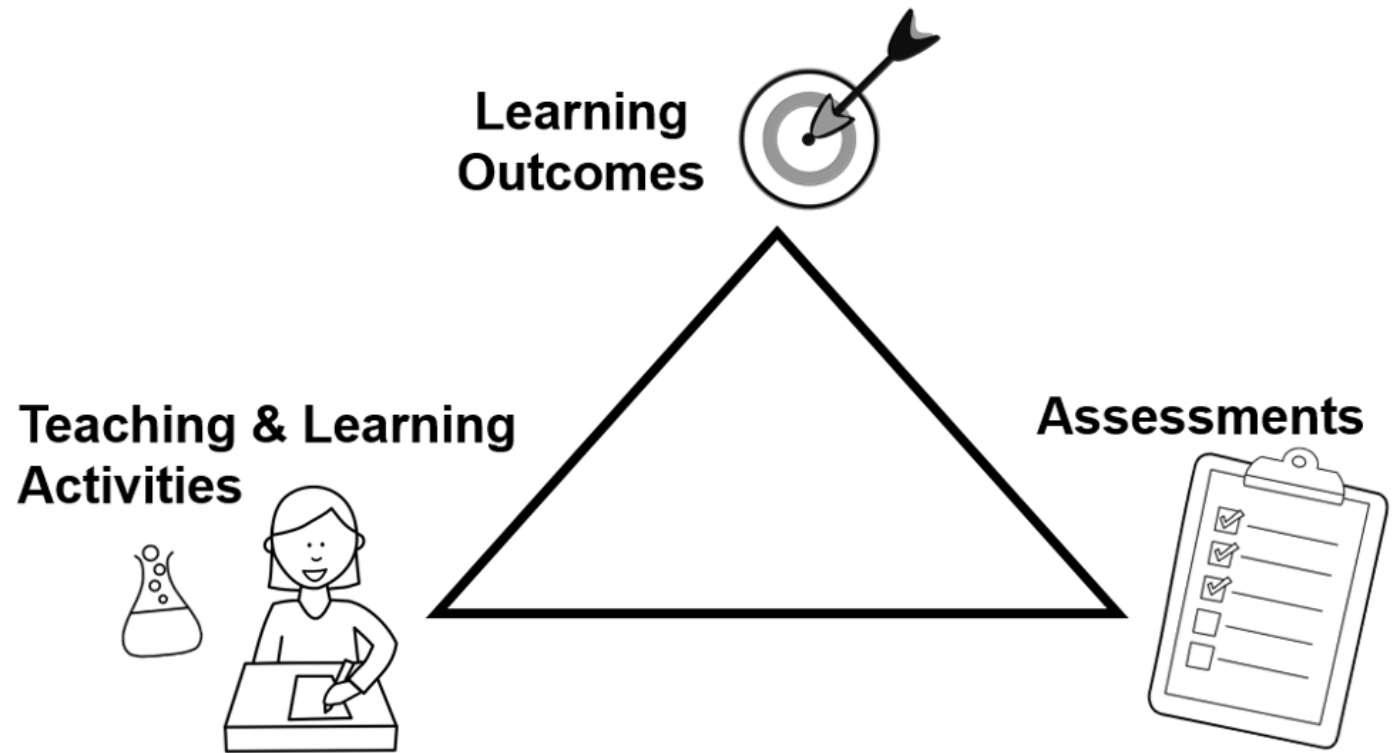
**What are
purposes of
assessment?**

Alignment



Competencies	Teaching and Learning Activities	Assessment
What students will be able to do?	How students will actively learn?	How to measure students' achievement?

Why is
Alignment
important?



According to what?

- Purpose
- Formative
- Summative



**When the cook tastes the soup,
that's formative assessment.
When the guests taste the soup,
that's summative assessment.
~ Paul Black ~**

Arrange



Understand



Apply



Remember



Evaluate

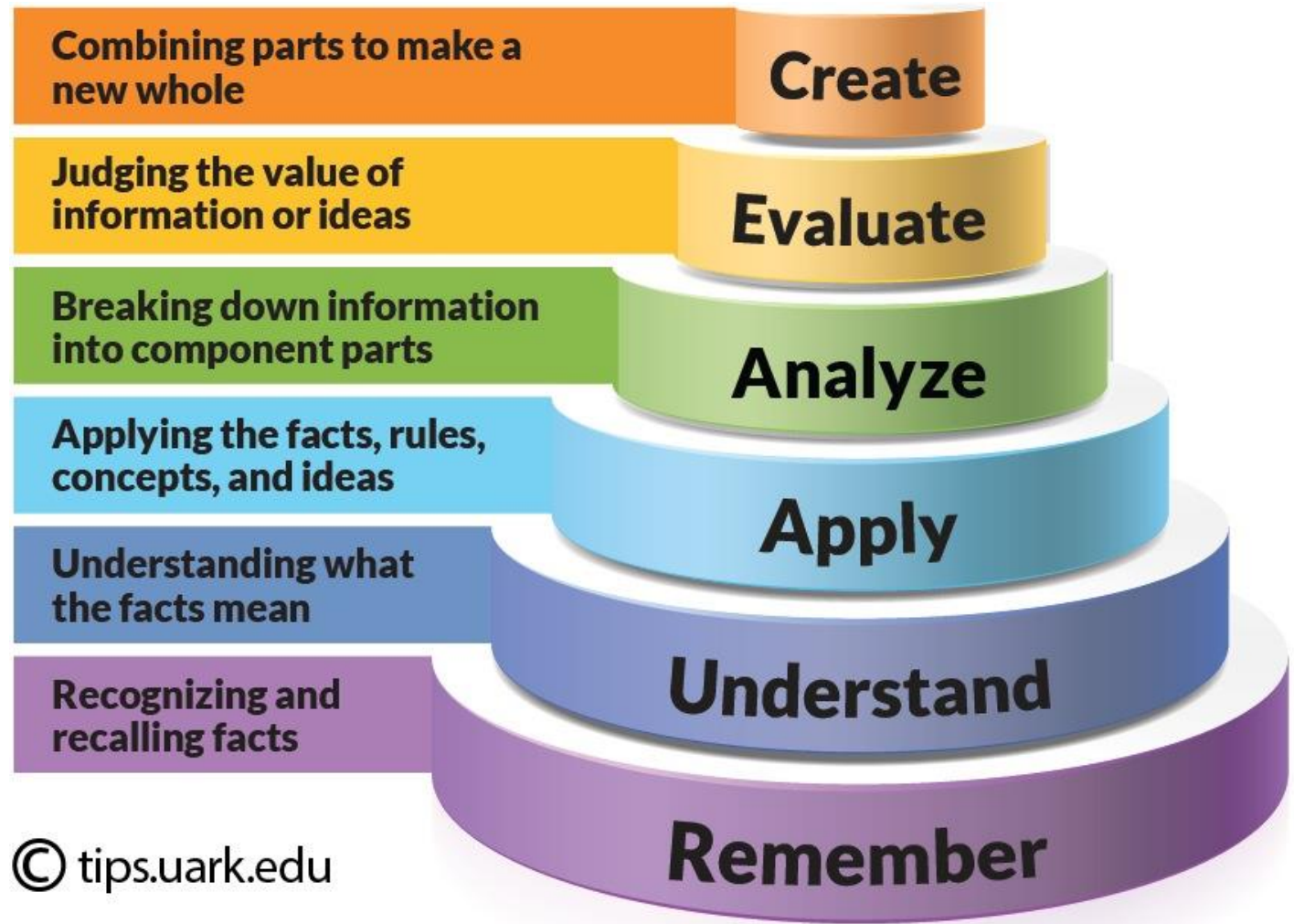


Analyze



Create

Blooms Taxonomy



Bloom's Taxonomy - Cognitive

Higher Order



6. Creation

Behaviour: Display creative thinking, develop new concepts or approaches

Verbs: Develop, Create, Plan, Design, Revise, Formulate, Propose, Establish, Assemble, Modify, Arrange, Synthesise, Generate, Devise, Compose

5. Evaluation

Behaviour: Assess effectiveness of whole concepts in relation to other variables

Verbs: Assess, Review, Justify, Report On, Defend, Present A Case For, Argue, Appraise, Investigate, Support, Predict, Judge, Rate

4. Analysing

Behaviour: Interpret elements, structure relationships between individual components

Verbs: Analyse, Structure, Catalogue, Compare, Break Down, Quantify, Test, Examine, Experiment, Relate, Measure, Plot, Contrast, Extrapolate, Infer

3. Applying

Behaviour: Use or apply knowledge, in practice or real life situations

Verbs: Use, Apply, Manage, Execute, Produce, Implement, Construct, Prepare, Respond, React, Change, Compute, Solve, Operate, Show

2. Understanding

Behaviour: To comprehend meaning, explain data in own words

Verbs: Explain, Illustrate, Paraphrase, Classify, Summarise, Translate, Report, Interpret, Critique, Reiterate, Reference, Locate, Indicate

1. Remembering

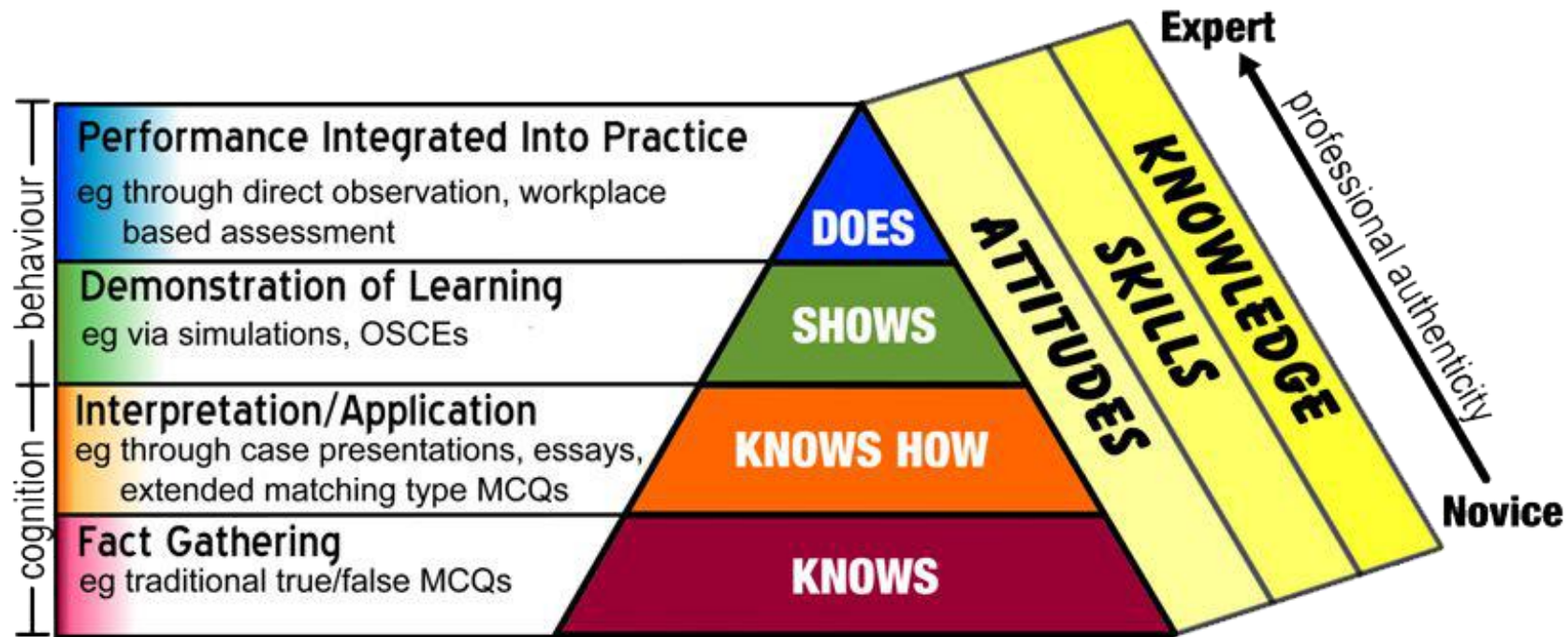
Behaviour: To recall, recognise, or identify concepts

Verbs: Identify, Highlight, Arrange, Define, Describe, Label, List, Relate, Memorise, Select, Reproduce, State, Match, Outline

Lower Order

MILLER'S PRISM OF CLINICAL COMPETENCE (aka Miller's Pyramid)

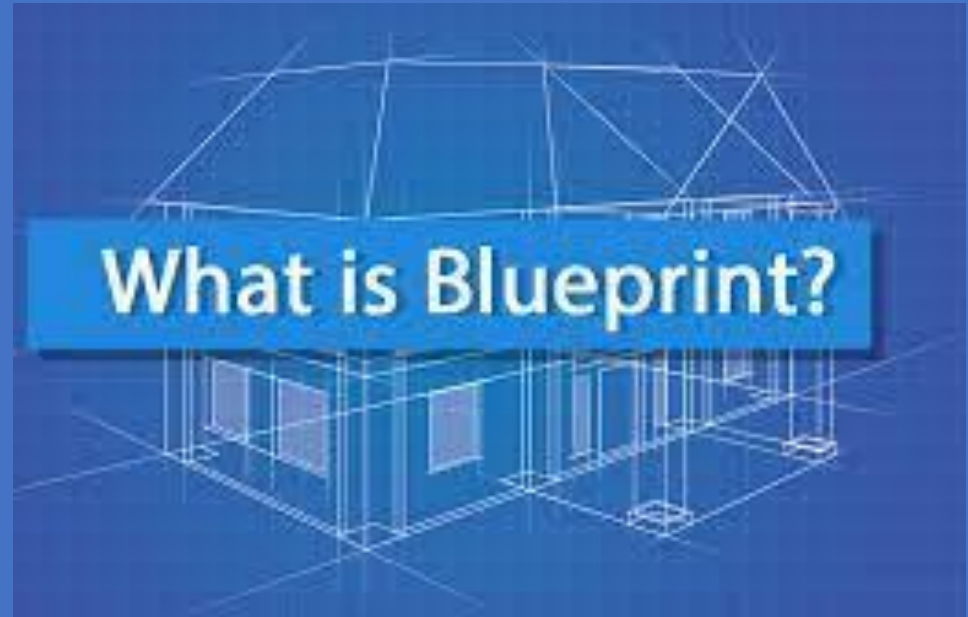
it is only in the "does" triangle that the doctor truly performs



Based on work by Miller GE, *The Assessment of Clinical Skills/Competence/Performance*; Acad. Med. 1990; 65(9); 63-67
Adapted by Drs. R. Mehay & R. Burns, UK (Jan 2009)

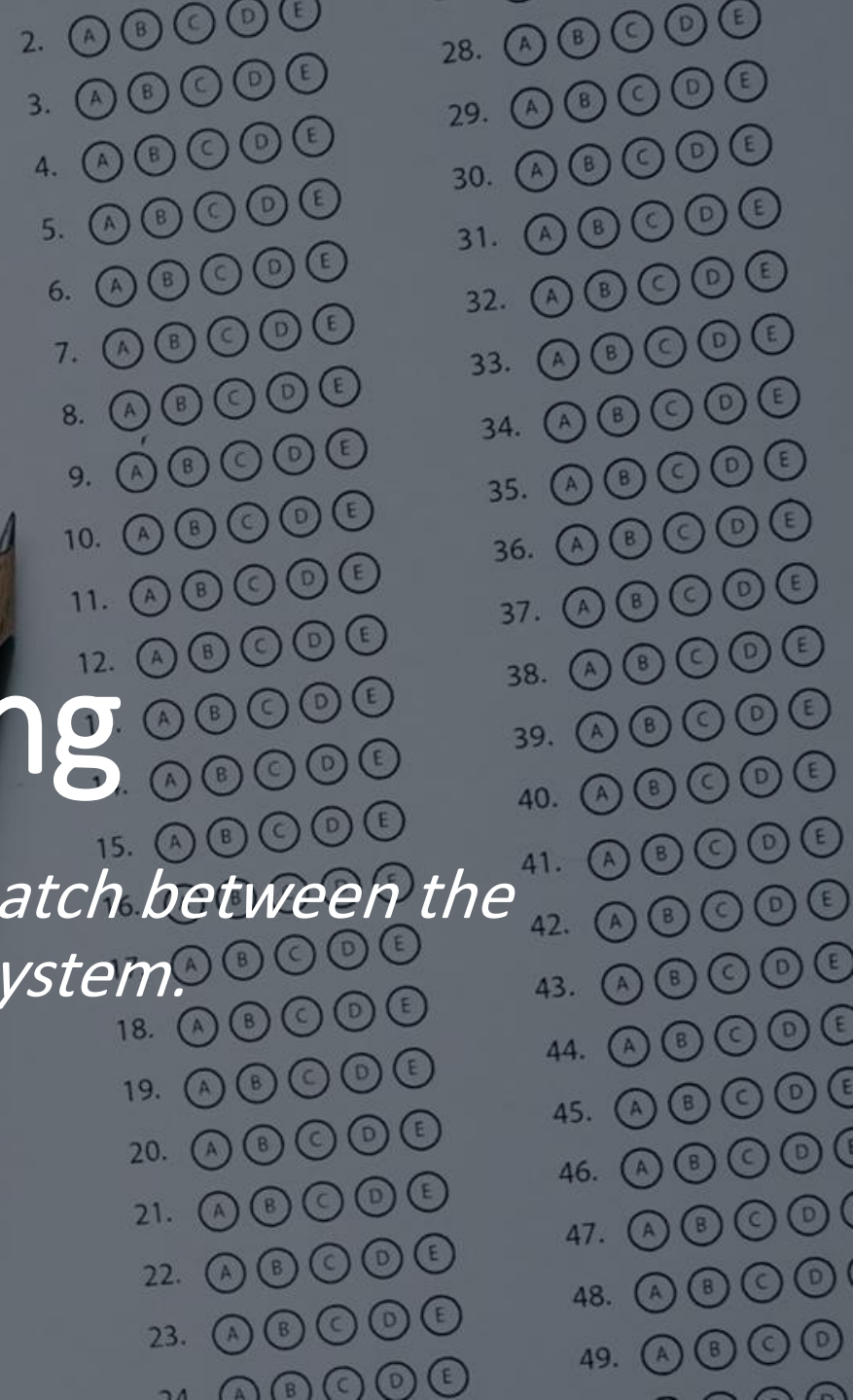


What is Blueprint?



Test Blueprinting

Blueprinting is the process that ensures a match between the curriculum and the assessment system.



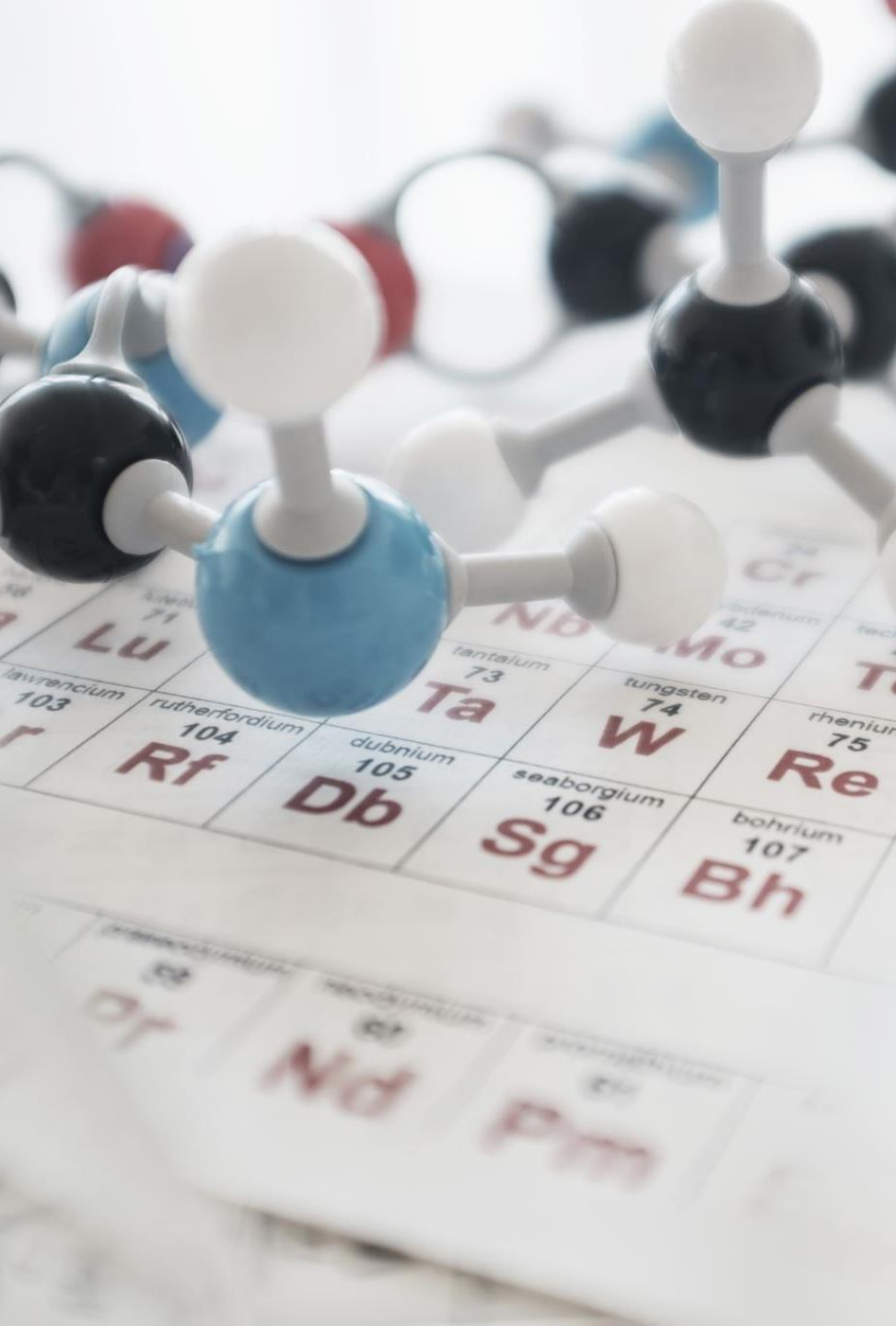
BLUEPRINTING



TO MAKE SURE THAT
ASSESSMENT MATCHES
OUTCOMES
(COMPETENCIES) LEARNT



TO MAKE SURE THAT
ASSESSMENT MATCHES
LEARNING FORMAT



Test blueprinting

... is the matrix or chart reporting the number and type of test questions represented across the topics in content area, consistent with learning objectives and relative weight on test given to each topic

Test Blueprinting

... is required for constructing a VALID and FAIR exam Question paper that measures the achievements of the planned competencies.



Purpose of Blueprint



Provide a map of examination format and the content area



Type of measurement tool for assessing the items weighting the learning objectives



Content validity of assessment (It guides item collection and development)



Satisfy the Bloom's taxonomy of educational objective

Criteria of the final exam paper



Cover all the materials taught throughout the semester. (from week 1...)



Assess critical thinking and include application-based questions.



A comprehensive marking scheme and answer booklet should be submitted along with the question paper.

Blueprint: Characters



It is a matrix or chart reporting the number and type of test questions.



The questions represent the topics in the content area.



The questions are based on the learning objective from each topic.



Also identifies the percentage (%) weighting of cognitive dimensions.

Benefits of Blueprint



Guide construction of question paper.



Links assessment to learning objectives and domains.



Helps to match various competencies with the course content and the appropriate modality of assessment.



Helps the teachers in designing the instructional strategies.

Relative weightage to

- Course contents (lectures)
- Question type
- Question time
- Competency covered
- Difficulty level



Anatomic Pathology Exam Blueprint	Approximate %		
	Written	Practical with Images	Micro/ Virtual
Alimentary Canal, Pancreas, Liver, Extrahepatic Biliary tree, Gall Bladder	7	12	15
Anatomic Pathology Management	5	0	0
Bone Marrow	3	3	1
Breast	8	6	11
Cardiovascular	2	1	1
Central and Peripheral Nervous System	4	2	6
Cytopathology	6	32	0
Endocrine	5	3	6
Female Genital, Placenta	10	6	9
Forensic	2	2	0
General Pathology Principles	5	4	0
Head and Neck	4	5	8
Laboratory Management-General	4	0	0
Lymph Nodes and Spleen	3	3	6
Male genital	4	5	8
Molecular	4	0	0
Respiratory, Pleura, Mediastinum	6	4	8
Skin	6	3	8
Soft Tissue and Bone	6	3	6
Urinary	6	8	8
Total Number of Questions in Each Section	125	120	80 (55/25)
Total Hours Allotted for Each Section	2	2	3.75

Test Blueprint

Content/ Objective	Learning Level (Number of test items)			Total
	Knows facts (Recall)	Understanding	Applies Principles (Application)	
Kreb Cycle	3	5	2	10
Aquaporins	2	2	4	10
Cell Types	5	0	0	5
Total	10	7	8	25

By the completion of the Unit students should:	MED4000 Summative Assessment Instrument									
	Written MCQ Paper	Written SCT Paper	Written SAQ Paper	MSAT Clinical	Clinical Rotations	Journal Club	PRINT Tutorial	Short Case Presentation	PPH Project	Professional Portfolio
Relative Weight		35		30	15	5	2	5	5	5
Be able to interpret their knowledge and understanding of the basic & clinical sciences to enable them to assess and manage patient illness and disease.	X	X	X	X	X		X	X		
Be able to integrate the clinical information gained from patient assessment, formulate diagnostic possibilities, communicate and implement an evidence based management plan.	X	X	X	X	X	X	X	X		
Integrate ethical professional behaviours into all aspects of medical working life.			X	X	X		X			X
Integrate their understanding of the principles of population health and knowledge of the range and accessibility of health services into the assessment and management of patients.			X			X			X	

Ain Shams University
 Faculty of Medicine
 Department of
 Year.....



جامعة عين شمس
 كلية الطب
 قسم
 العام الجامعي.....

TABLESPECIFICATIONEXAM BLUEPRINT												
SPECIFICATION TABLE				CONTENT			EXAM BLUEPRINT					
Teaching				Topic title	Weight %	ILOs	Continuous Assessment		Final Exam			Total marks
Other hours	Tutorial hours	Practical hours	Lecture hours				MCQ	Essay	Practical/clinical	Oral		
					Total							



Pediatric Surgery (MSc 505)
Academic Year 2018/2019
Second Semester
Blueprint

#	Course content	*L	*R	*H	LRH Weight	# of Items	MCQs			Matching	Essay questions
							Recall 30%	Applications 50%	Analysis 20%		Complete
							(1 min/item)	(1.5- 2 min/item)	(1.5-2 min/item)		
1.	Neonatal surgical emergencies	1	1	3	3	3.6 4					
2.	Neonatal intestinal obstruction Colostomy	2	1	3	6	7.3 7					
3.	IHPS & intussusception	2	1	3	6	7.3 7					
4.	Craniofacial Abnormalities (Cleft Lip and Palate)	1	1	3	3	3.6 4					
5.	Genitourinary disorders: Undescended test & hypospadias & Circumcision	3	1	3	9	10.9 11					
6.	Inguinal scrotal swelling	1	1	2	2	2.4 2					
					29						
	# Of Questions				35/29	1.21					
	Total Marks of exam (50)										

• Total marks of the exam: 50 mark

• **Key Words:** *L.: Number of lectures.

*R.: Relation to other content areas.

*H.: History of exam

Thank You!

