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# Session 10

## C-EDUC5 (3 units) ASSESSMENT in Learning 1

Fall Semester 2023



## **Session 10**

### **C-EDUC5 ASSESSMENT in Learning 1**

**Fall Semester  
2023**

# **Characteristics of a Valid Assessment Tool**

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**P H I L I P P I N E S**



**Looking  
back...**

**The Multiple-  
Choice Test**

## **The Multiple-Choice Test**

- Versatile
- Covers all cognitive skills logically
- Invites analytical and critical thinking
- Tests decision-making skills of students



**Looking  
back...**

The Multiple-  
Choice Test

## Steps in Designing Multiple-Choice Test Items

1. Begin with the expected or correct answer.
2. Draft the stem or question.
3. Assign distracter.



## Looking back...

### The Multiple- Choice Test

Learning Outcomes as  
how they were taught

Thinking skills involved  
(R, U, Ap, An, E)

Specifying the correct / best answer

Translating outcomes into item stem / question

Assigning distracters and  
evaluating against the correct answer

Reviewing grammar, spelling, format



## **Looking back...**

### **SESSION 9 CONCLUSION**

The multiple-choice test is versatile because it encompasses almost all cognitive learning skills. The action of the learning objective determines the test stem and the answers following the procedure:

- (1) begin with the expected answer,
- (2) draft the stem or question, and
- (3) assign worthy distracters.



**Springboard  
question to  
ponder**

NATION



# DepEd challenged by PH's poor ranking in World Bank education report

*Article 1: DepEd challenged by PH's poor marking in World Bank education report (Source: Aguilar, 2021: Online)*

**How can our tests engage learners to think analytically and critically?**



## **Session 10**

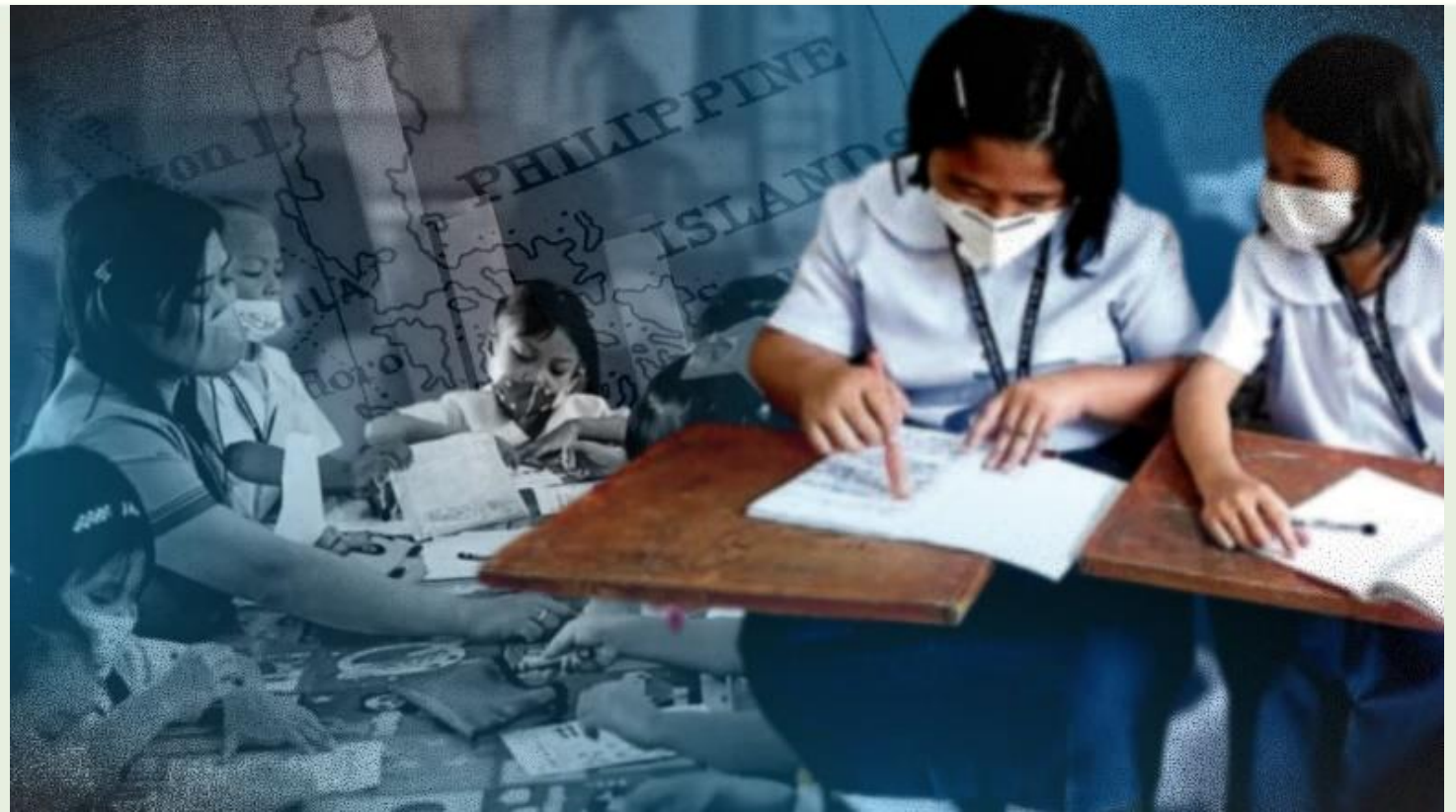
### **Characteristics of a Valid Assessment Tool**

## **OBJECTIVES**

- 1. Determine the various aspects of validating an assessment instrument and**
- 2. Construct valid multiple-choice test items across the first five cognitive skills: Remembering, Understanding, Applying, Analyzing, and Evaluating.**



**Let's think  
about this.**



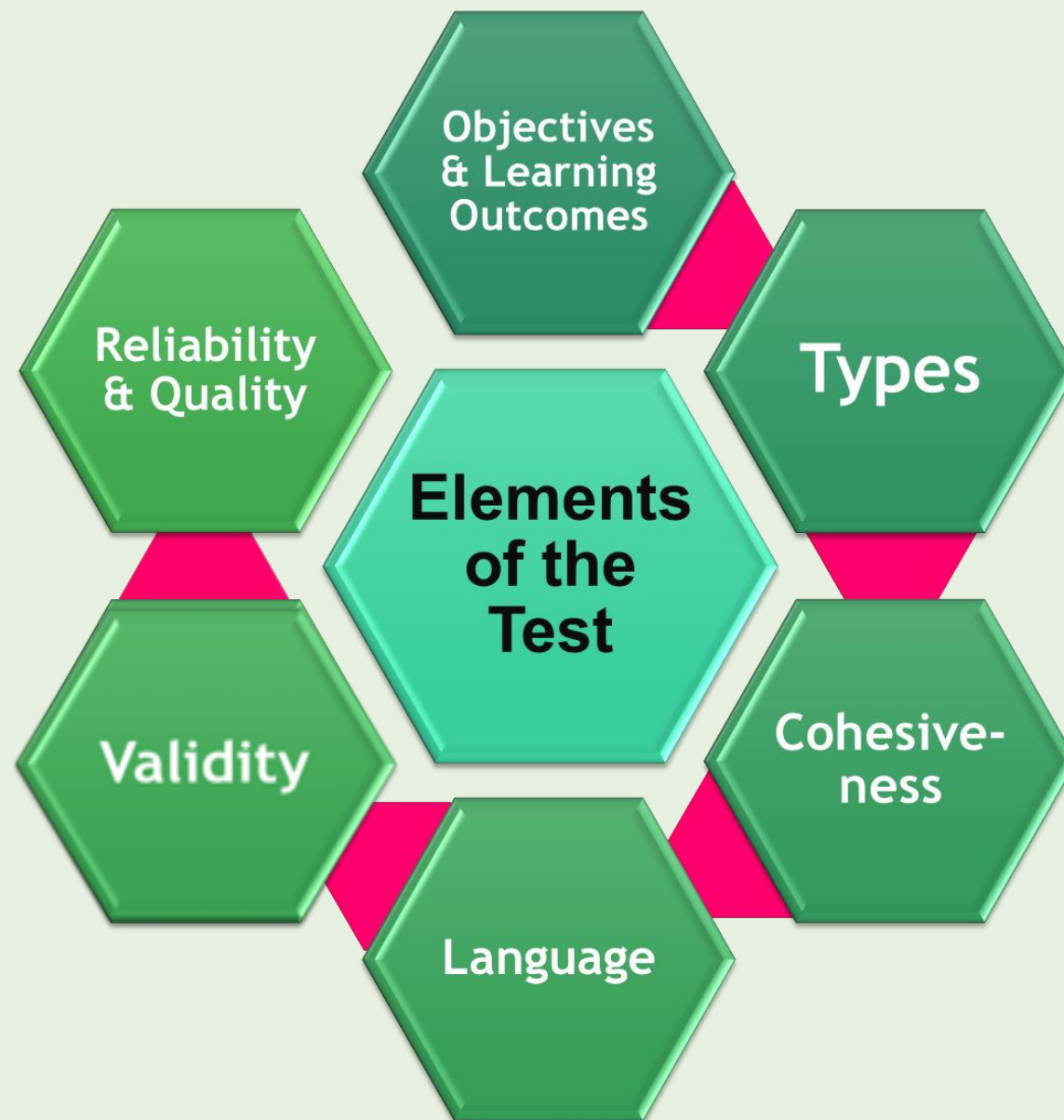
*Image 1: Southeast Asia rank: PH 2nd to worst in Grade 5 students' reading, math (Source: Dela Peña, 2023: Online)*

**How do we know if we measure  
the right learning skills right?**



## **Topic 1**

# **Aspects of a Valid Assessment Tool**





## **Topic 1**

### **Aspects of a Valid Assessment Tool**



- The test tool is able to consistently and accurately measure its intended construct.



## **Topic 1**

### **Aspects of a Valid Assessment Tool**

# **Types of Test Validity**

**Content Validity**

**Construct Validity**

**Criterion-Related Validity**

**Face Validity**



## **Topic 1.1**

### **Types of Test Validity**

## **Content Validity**

- Ability of a test to represent the various components of the subject matters
- Derived from the topics, ideas, concepts, and elements of the lesson objectives



## **Topic 1.1**

### **Types of Test Validity**

# Construct Validity

- Ability of a test to represent the various skills, actions, values, and competencies to be tested
- Derived from the processes and pedagogy used in learning the constructs



## **Topic 1.1**

### **Types of Test Validity**

## **Criterion-Related Validity**

- Ability of a test to represent the teaching and learning standards and desired outcomes
- Derived from the immediate learning outcomes that relate with the type and mechanics of the test



## Topic 1.1

### Types of Test Validity

## Face Validity

- Physical, visual, and mechanical soundness of the test

*Mechanics: language, semantics, directions, statements, questions*

*Test paper: format, layout, margins, spacing, font style and size*

*Practical test: facilities, equipment*



**Let's assess  
our skills**

**A. Identify the MAIN learning skill that is specified in each lesson objective. (Items 1, 3, 5, 7, 9)**

***B. Determine whether the test stem/question that follows is valid or invalid as regards the objective. (Items 2, 4, 6, 8, 10)***



**Let's assess  
our skills**

**analyzing**

- 1. To explain the difference between the gravitation and radiation of the sun**
- 2. *Which sun's behavior shows the contrast of solar forces?***

**valid**



**Let's assess  
our skills**

**remembering**

3. Enumerate the ingredients in cooking 'beef-broccoli stew'
4. *What ingredient in cooking 'beef-broccoli stew' should be added after simmering it?*

**invalid**



**Let's assess  
our skills**

**understanding**

**5. Narrate how Tania got the tiara from the wicked witch in the story of 'The Gypsy Princess'**

**6. *What makes taking back of the tiara from the wicked witch hypnotizing?***

**invalid**



**Let's assess  
our skills**

**applying**

- 7. Demonstrate the associative property of addition in an equation**
- 8. Which expression is associated with  $6 + (4 + 9)$  to make it an equation?**

**valid**



**Let's assess  
our skills**

**evaluating**

**9. Discuss how some practices  
are against the Flag Code**

***10. Why is using the national  
colors in costumes a violation  
of the Flag Code?***

**valid**



## **Topic 2**

### **Constructing Valid Test Items**

#### **Mission:**

**State the valid test question according to the lesson objective and the specified cognitive skill**

#### **Subject Matter:**

**The Three Smallest Bones in the human body**



## Topic 2

### Constructing Valid Test Items

# Remembering

**Lesson Objective:** To describe the tympanic membrane or eardrum

**Expected Answer:** Eardrum

**Test Item:** What is the film-like sheath at the end of the ear canal that is also known as the tympanic membrane?



## Topic 2

### Constructing Valid Test Items

## Understanding

**Lesson Objective:** To describe the structure and location of the malleus, incus, and stapes

**Expected Answer:** Malleus

**Test Item:** Which bone is attached to the tympanic membrane that receives the sound waves?



## Topic 2

### Constructing Valid Test Items

# Applying

**Lesson Objective:** To determine how the ossicles work in the ear

**Expected Answer:** amplify sound into the inner ear

**Test Item:** What do the auditory ossicles do in the hearing sensory process of the ear?



## Topic 2

### Constructing Valid Test Items

## Analyzing

**Lesson Objective:** To infer how the Eustachian tube maintains the balance in the auditory system

**Expected Answer:** Maintains the body's equilibrium

**Test Item:** Why do you think the Eustachian tube balances the pressure on both ears?



## Topic 2

### Constructing Valid Test Items

## Evaluating

**Lesson Objective:** To discuss the proper care of the ear

**Expected Answer:** Exposure to very loud noises

**Test Item:** Which of the following should be avoided to prevent damage to the ear?



## **Session 10**

### **Characteristics of a Valid Assessment Tool**

## **CONCLUSION**

The test item is valid when the content is based on the learning outcome being assessed and is proven to measure the learning skill intended in its construction. Besides the content and construct validity, the entire test's physical features and language proficiency make face validity equally essential.



## Session 10

### Characteristics of a Valid Assessment Tool

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