

Math Assessment: Options for Teaching & Learning



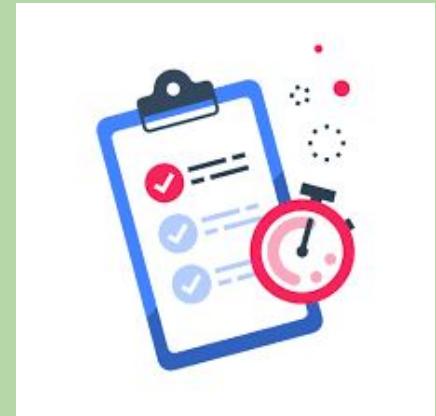
EDEC 303: Mathematics Theory & Instruction

Assessment: What is it?

Why do teachers assess?

When do teachers assess?

How do teachers assess?



How do we know what children know and are able to do?

Look at the 3-act lesson ([Peas in a Pod](#)). Imagine this as your lesson.

[CCSS.Math.Content.1.OA.A.2](#)

Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.

[PDESAS](#): CC.2.2.1.A.1: Represent and solve problems involving addition and subtraction within 20.

Objective: SWBAT determine how many peas would there be if all the peas were in one pod.

Objective: SWBAT write a word problem that matches the Peas in a Pod Video (Act 3)

Objective: SWBAT write a number model (equation) to reflect the Peas in a Pod video.

What would an appropriate assessment be for each objective?

Assessing the Peas in a Pod

Objective: SWBAT determine how many peas would there be if all the peas were in one pod.

-What evidence would a child submit to show related to this objective?

Objective: SWBAT write a word problem that matches the Peas in a Pod Video (Act 3)

-How would you assess the word problem a child developed?

Objective: SWBAT write a number model (equation) to reflect the Peas in a Pod video.

-What evidence would a child submit to show related to this objective?

Rubrics (Criteria & Levels of Performance)

Criteria & Levels of Performance: A Possible Rubric for Peas in a Pod Word Problem

PA Core Standards Reference: [PDESAS](#): CC.2.2.1.A.1: Represent and solve problems involving addition and subtraction within 20.

Criteria	Ready for Prime Time - Excellent!	Almost there!	Not Yet!

Other Kinds of Assessment

Questioning in Math Class:

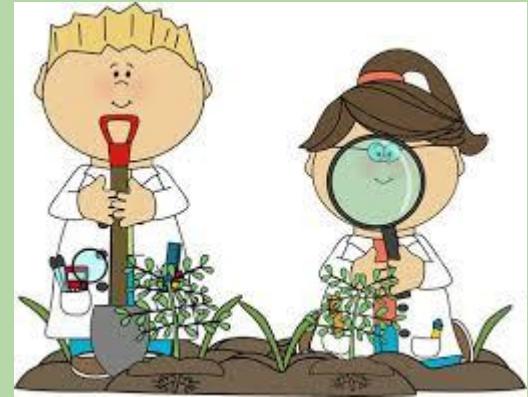
What do you notice?

Turn observations into questions. (I wonder ...)

Provide opportunities for student to ask questions about phenomena.

Performance Tasks:

A Performance Task is an assessment that provides a challenge for students to develop a product.



GRASPS - a Format for Performance Tasks

G: Goal - Your goal (or task) is to ...

R: Role - Your job is to ...

A: Audience - You need to convince ...

S: Situation - The challenge/context is ...

P: Performance/Product and Purpose - You will create a _____ in order to ...

S: Standards (or Criteria for Success) - Your product must meet the following standards ...

