

Operations & Algebraic Thinking for Children Who are Non-Speaking or Limited Speaking: Lessons for Soma®RPM and Choice Based Systems

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OAT Lesson 1: Adding and Subtracting Concept

STATE: Today we get to learn what the meaning of addition and subtraction.

ASK: We get to learn what addition and subtraction (EAT or MEAN.)?

"Yes, we get to learn what they mean."

STATE: If I put more together or add more it is addition.

ASK: So, is addition if I put (MORE. together or LESS apart)?

"Yes, it is putting more together."

EXPAND: Let's say you are building a block tower. (*might draw one and then one more as you say this*) If you put another block on is that addition? (YES. or NO)?

"Yes, you are adding another block."

EXPAND: If I put 3 more cars in my row of 5 cars (*Might draw as you say this*) this is called (SHORT or ADDITION.)?

"Yep, addition."

NOBT Lesson 1: Meaning of Place Value 11-19

STATE: Let's think about the words 'Place Value.'

ASK: Let's pick out what we said we are talking about. Are we talking (PLACE VALUE. or PHONICS)?

"Yes, the place value of a number is what we will talk about."

EXPAND: The value of the iPad is more than a pencil. So then, what do you think value is about (WEIRD or AMOUNT.)

"Yes, where the number is placed in a number changes the amount or value."

EXPAND: Now place goes with the word? (WHERE. or COLOR)?

"That's right, the place something is at is where it is at."

STATE: Each single number is call it a digit.

ASK: What do we call one single number? (DIGIT. or CONE)?

OAT Lesson 3: Adding (STORY)

STATE: MaKenzi is a frog who likes to hop.

ASK: What kind of animal is MaKenzi? (FROG. or DOG)?

"Yep, she's a frog."

EXPAND: I would say frog goes with (PINK or GREEN.)?

"Yes, it goes with green! What else is green (SUN or GRASS.)?"

EXPAND: Do you like to hop? (YES or NO)?

"It can be fun to hop!"

STATE: MaKenzi hopped on two lily pads (*Draw a lily pad.*). Then she hopped on two more. (*Draw two more.*)

ASK: What did she hop on? (LILY PADS. or DIRT)?

"That's right, a lily pad."

EXPAND: Two hops plus two hops equals (FOUR or TWO.)?

"2+2=4"

OAT/NOBT Lesson 1: Subtract Using Drawings/ Moving Objects or Representing w/ Objects (MOTOR)

SKILL OBJECTIVE: Student will learn to cross out pictures to demonstrate subtraction.