

RnD Masuda

Background:

The Pratham content team has been conducting a yearlong intervention with schools in Masuda, Rajasthan. The idea behind this study is to build comprehension skills and understanding of Grade 4 level authentic texts in Language and to build mathematical ability at grade 4 level.

Rationale of the Study:

The program intends to

- Develop meta-linguistic skills so as to create independent fluency and proficiencies on grade 4 level texts.
- Familiarize children to help them read and comprehend Grade 4 level authentic text
- Develop children's ability in such a way so that they can look at a text as a unit of meaningful sentences instead of focusing on grammar
- Develop children's ability to relate vocabulary to semantics (just knowing the vocabulary will not help in understanding better)
- Develop children's writing skills inclusive of expressive vocabulary and grammatical correctness
- Help children acquire abilities and proficiency in Grade 4 level Math competencies covered in the state textbooks

Extent of Study:

The assessment study is being conducted across 6 schools in Masuda, Rajasthan.

Timeline of the Assessment:

The entire assessment process consists of 3 visits and will be made for a year (2015-2016). The first visit began in January 2015.

Methodology:

- **Language Assessment framework -**

Language	Type of questions
TEXT 1 (NARRATIVE TEXT)	retrieving information and writing
	retrieving information (Multiple Choice questions)
	interpreting information from the given data
	idioms
	creative writing
	contextual vocabulary
	writing synonyms and forming sentences

	underlining the verbs
	word meanings
TEXT 2 (INFORMATIVE TEXT)	retrieving information (level 1)
	retrieving information (level 2)
	retrieving information (level 3)
	interpretation (Multiple Choice questions)
	meaning and sentence formation
	underlining the adjectives
	antonyms and sentence formation

- **Math Assessment framework –**

Tool-1		
concepts	Competencies	class
Number sense and number operations	place value of four digit numbers and five digit numbers	III
	formation of four digit larger and smaller numbers from given digits	III
	identification of numbers (3 digit)	III
	patterns of two digit, three digit numbers	II
	four digit subtraction with regrouping	III
	multiplication of three digit number with one digit number	III
	division of three digit number with one digit (two step)	III
	word problem (addition)two digit	II
	word problem (division)3 by 1 digit	III
	word problem (multiplication)3 by 1 digit	III
Fractions	equivalent fraction	IV
	pictorial identification of fractions	IV
	largest and smallest fractions with same as well as different denominators	III
	addition of fractions	IV
	word problems on fraction formation	IV
	addition and subtraction of fraction with same denominator	IV
Tool-2		
Geometrical Shapes	writing name of shapes	III
Symmetrical Figures	formation of symmetrical figure	IV
	identification of symmetrical shapes	IV
Measurements	visual estimation	III
	finding area by counting boxes	III
	finding perimeter and area	IV
Time	estimation of time	IV
	estimation of time(days)	III
Data Handling	analysing data to answer questions	
Estimation	Length	III
	Volume	III

	estimation and then addition	III
	estimation and multiplication	III

Update: 14 May 2015