

**ITBS Results**  
**Marietta City Schools**  
**Fall 2008**

The ITBS (Iowa Test of Basic Skills) is a nationally norm referenced test (NRT) used to compare the achievement of students in Marietta City Schools (MCS) to that of a representative national sample of students. The purpose of the NRT is to obtain information about how the performance of MCS students compares with that of students in a national sample, an external reference group. In other words, the ITBS is used to rank students' performance on a scale. Scores from a norm-referenced test tell how a given student's knowledge or skill measures up to that of others in a norm group.

Georgia law (O.C.G.A., Section 20-2-281) states that each local school system may elect to administer, with state funding, nationally norm-referenced instruments in reading, mathematics, science, or social studies in grade three, four, or five and in grade six, seven, or eight, subject to available appropriations, with assistance to such school systems by the State Board of Education with regard to administration guidance, scoring, and reporting of such assessments.

Prior to the fall of 2006, the ITBS was administered in the spring in MCS. However, in response to benefits cited by local school systems and research conducted at the University of Iowa, MCS decided to administer the ITBS in the fall beginning in 2006. A fall benchmark administration enhances the school system's ability to use results to guide instruction for the rest of the school year. Individual score reports provide teachers with information necessary to differentiate instruction, and grade level information allows the curriculum department to target specific professional learning opportunities. In addition to the standard cautions for data interpretation, the highly transient student population at some schools in MCS places additional limitations on data interpretation at some grade levels for some schools.

**Note:** The availability of norms makes it possible to make score comparisons with the most relevant group of students. In 2007 Marietta City Schools began using the 2005 norms for scoring grades 1, 2, 4, 6, and 7. The state's contract with Riverside Publishing specified that 2000 norms would be used for state funded scoring of grades 3, 5, and 8. Due to a change in the law, MCS was able to select grades 4 and 7 as the grades to be scored using state funds. For this year ITBS scores reported for grades 1, 2, 3, 5, 6, and 8 are based on 2005 norms. ITBS scores reported for grades 4 and 7 are based upon 2000 norms. Consequently, 2008 ITBS scores for grades 3, 4, 5, 7, and 8 outlined in this report are baseline results, and should be used only for instructional planning purposes; they should not be compared to scores from past ITBS administrations.

This report presents information regarding the results of the ITBS administered in **October 2008**. The report is divided into the following parts:

- I. **Comparison of MCS ITBS NPR results (2 years) for grades 1 - 8**
  - a. Key Findings
- II. **Comparison of ITBS NPR results by school for grades 1 - 8**
  - a. Key Findings
- III. **Comparison of ITBS NPR results demographic group for grades 4 and 7**
  - a. Key Findings
- IV. **NPR Data (2007-2008)**
  - a. Presented by school and subject tested for grades 1-8
  - b. Disaggregated by total NPR, ethnicity, English Language Learners, special education, and gender for grades 4 and 7

### Definitions

*Norm*: a measure provided by a norm-referenced test that relates the test performance of an individual or group to the performance of the norm group.

*NPR (National Percentile Rank)*: the percentage of students in a norm group whose scores fall below a given student's scaled score. For example, if a student score converts to a national percentile rank (NPR) of 75, the student scored higher than approximately 75 percent of the students in the national norm group. At the same time the average range of NPR is between the 25<sup>th</sup> and 75<sup>th</sup> percentile rank, and a score of 50 suggests half of the students making up the norm group would score above and below a student with this score.

*Reading Total (RT)*: average of Vocabulary and Reading Comprehension for grades 2 - 8.

*Math Total (MT)*: average of Concepts, Problems, and Computation for grades 2 – 8.

For the purpose of this report, score variance is considered significant at +/-5 percentage points.

## **I. Comparison of MCS ITBS NPR results (2 years) for grades 1 - 8**

### Key Findings

An examination of NPR scores for MCS over two years (2007 and 2008) was conducted. No significant decreases in MCS scores were noted in any areas. Results indicate increases in

- Grade 1
  - Vocabulary (4), Comprehension (1) and Math Total (3).
- Grade 2
  - Vocabulary (2), Comprehension (1), Reading Total (2), Concepts & Estimation (2), Problem Solving (5), Computation (1), and Math Total (3)
- Grade 3
  - Not Available
- Grade 4
  - Not Available
- Grade 5
  - Not Available
- Grade 6
  - Computation (1)
- Grade 7
  - Not Available
- Grade 8
  - Not Available

Note: No comparisons can be made for grades 3, 4, 5, 7, and 8 due to change in norms used for scoring

## II. Comparison of ITBS NPR results by school for grades 1 - 8

### Key Findings

- An examination was conducted comparing NPR scores over two years (2007 and 2008) by school for each subject tested. Results indicate dramatic increases in NPR scores for the following:

[Note: No comparisons can be made for grades 3, 4, 5, 7, and 8 due to change in norms used for scoring.]

#### Grade 1

- **Vocabulary**
  - DL (7)
  - HH (5)
  - Charter (12)
- **Math Total**
  - HH (11)

- **Not Available**

#### Grade 2

- **Vocabulary**
  - DL (5)
  - SR (8)
  - WS (6)
- **Reading Total**
  - SR (9)
- **Math Concepts**
  - DL (5)
  - LH (9)
- **Math Problem Solving**
  - DL (10)
  - LH (9)
  - SR (10)
- **Math Computation**
  - DL (6)
  - LH (5)
- **Math Total**
  - DL (8)
  - LH (8)
  - SR (5)

#### Grade 3

- **Not Available**

#### Grade 4

- **Not Available**

#### Grade 5

- **Not Available**

#### Grade 6

- **No significant increases in any area**

#### Grade 7

- **Not Available**

#### Grade 8

- An analysis of the 2008 range of NPR (scores) by grade level across schools was conducted for variability. Measures of variability are used to provide a description of how spread out scores are in a distribution. The table below represents the 2008 range of the NPR within MCS by subject and grade level tested. Ranges are presented as the distance from the lowest to the highest score in the NPR:

2008 ITBS National Percentile Rank Scores Ranges

Grade	Reading	Math	Science	Social Studies
1	61-92	31-74	NA	NA
2	39-75	31-67	NA	NA
3	32-88	39-92	NA	NA
4	33-91	41-92	44-91	39-88
5	31-88	34-89	NA	NA
6*	47	48	NA	NA
7*	48	49	53	48
8*	43	47	NA	NA

\*Only one grade in system, therefore actual scores are presented

### III. Comparison of ITBS NPR results by demographic group for grades 4 and 7

No comparative data for demographic groups can be derived at this time since data for 2008 is baseline data. The data for 2008 is treated as baseline since the norms used in deriving the scores for these two grades were changed to align with the norms required by the state contract with Riverside Publishing for scoring tests and reporting results. The state contract specifies that 2000 Norms will be used.

#### Key Findings

##### Grade 4

- System NPR scores exceeded the average NPR (50) in
  - Reading (55)
  - Math (63)
  - Social Studies. (63)
  - Science (62)
- Asian, Black, White, Male, and Female demographic groups' NPR scores exceeded the average NPR (50) in Reading, Math, Social Studies, and Science
- Hispanic students exceeded the average NPR (50) in Math (54)

##### Grade 7

- System NPR scores exceeded the average NPR (50) in
  - Social Studies (53).
- Asian, White, and Female demographic groups' NPR scores exceeded the average NPR (50) in Reading, Math, Social Studies, and Science

**Grade 1**

ITBS NPR		Reading			Math
		Voc.	Compr.	Total	Total
System	2006	50	80	80	52
	2007	35	77	76	43
	2008	39	78	76	46
ALB	2006	72	95	95	80
	2007	56	91	91	70
	2008	53	93	92	74
DL	2006	43	63	66	40
	2007	31	79	77	37
	2008	38	76	75	40
HH	2006	38	71	65	37
	2007	25	70	64	32
	2008	30	65	61	43
LK	2006	43	77	76	47
	2007	33	68	70	35
	2008	32	67	68	37
PS	2006	38	76	75	40
	2007	24	67	69	35
	2008	22	67	64	31
SRE	2006	47	81	81	55
	2007	34	82	81	45
	2008	31	78	78	44
WS	2006	77	91	91	72
	2007	71	88	87	68
	2008	66	89	89	66
Charter	2006	82	82	83	71
	2007	41	72	73	47
	2008	53	67	66	46

Beginning in 2007, scores are based on the 2005 norms establishing base line data and should not be compared to prior year's results.

## Grade 2

ITBS NPR		Reading			Math			
		Voc.	Compr.	Total	Concepts.	Prob. Sol.	Compu.	Total
System	2006	54	64	60	47	47	52	47
	2007	45	64	54	39	44	51	42
	2008	47	65	56	41	49	52	45
ALB	2006	82	86	87	70	72	65	71
	2007	71	79	76	53	62	61	59
	2008	62	73	69	53	64	59	60
DL	2006	54	69	62	42	47	54	46
	2007	41	59	50	32	37	47	35
	2008	46	62	54	37	47	53	43
HH	2006	38	59	47	33	43	53	40
	2007	42	64	52	37	42	48	39
	2008	38	57	45	32	39	43	35
LK	2006	39	52	44	38	38	43	37
	2007	39	62	49	36	40	49	38
	2008	43	62	52	45	49	54	46
PS	2006	45	53	48	37	37	48	38
	2007	33	50	39	33	37	45	35
	2008	31	51	39	27	33	47	31
SRE	2006	50	57	54	48	44	49	45
	2007	38	59	47	38	41	52	40
	2008	46	57	56	41	51	54	45
WS	2006	76	81	81	67	65	67	68
	2007	62	84	75	64	72	63	68
	2008	68	80	75	62	70	62	67
Charter	2006	68	70	71	52	43	53	48
	2007	67	68	69	47	51	58	49
	2008	49	61	54	33	35	36	32

Beginning in 2007, scores are based on the 2005 norms establishing base line data and should not be compared to prior year's results.

**Grade 3**

ITBS NPR		Reading			Math			
		Voc.	Compr.	Total	Conc./Est.	Prob. Sol.	Compu.	Total
<b>System</b>	<b>2006</b>	39	53	46	54	51	45	51
	<b>2007</b>	48	59	54	62	55	65	62
	<b>2008</b>	42	59	51	55	58	64	60
<b>ALB</b>	<b>2006</b>	67	73	70	77	73	73	77
	<b>2007</b>	68	71	71	75	68	76	75
	<b>2008</b>	60	69	66	61	74	71	71
<b>DL</b>	<b>2006</b>	23	38	30	44	41	36	41
	<b>2007</b>	33	49	41	47	39	61	49
	<b>2008</b>	26	44	34	38	36	43	39
<b>HH</b>	<b>2006</b>	30	44	36	45	40	37	40
	<b>2007</b>	35	57	45	57	44	67	55
	<b>2008</b>	30	54	42	51	52	54	54
<b>LK</b>	<b>2006</b>	34	47	40	45	45	40	44
	<b>2007</b>	38	46	42	50	45	59	51
	<b>2008</b>	37	54	45	46	48	60	52
<b>PS</b>	<b>2006</b>	26	39	33	46	39	39	41
	<b>2007</b>	27	39	32	46	39	53	45
	<b>2008</b>	24	40	32	39	44	60	47
<b>SRE</b>	<b>2006</b>	29	46	37	47	44	38	43
	<b>2007</b>	37	50	43	51	48	49	50
	<b>2008</b>	27	44	34	44	46	55	48
<b>WS</b>	<b>2006</b>	63	67	65	64	63	39	58
	<b>2007</b>	73	73	74	76	71	72	75
	<b>2008</b>	77	77	78	72	81	79	80
<b>Charter</b>	<b>2006</b>	29	36	33	29	29	30	27
	<b>2007</b>	46	53	50	41	39	51	45
	<b>2008</b>	36	48	42	45	46	55	49
<b>MCAA</b>	<b>2006</b>	86	90	89	91	89	86	90
	<b>2007</b>	85	89	88	94	91	90	93
	<b>2008</b>	84	89	88	91	91	91	92

Beginning in 2008, scores are based on the 2005 norms establishing base line data and should not be compared to prior year's results.

## Grade 4

ITBS NPR		Reading			Math				Soc Stu	Science
		Voc.	Compr.	Total	Conc./Est.	Prob. Sol.	Compu.	Total	Total	Total
System	2006	49	61	56	59	63	58	62		
	2007	43	53	48	46	56	55	54		
	2008	47	61	55	65	61	62	63	63	62
ALB	2006	71	70	72	75	76	78	78		
	2007	66	70	69	67	72	65	70		
	2008	46	61	56	67	66	66	67	63	66
DL	2006	41	56	49	50	56	49	53		
	2007	28	36	34	33	41	36	37		
	2008	34	55	45	55	55	46	54	54	54
HH	2006	33	53	44	42	53	55	51		
	2007	28	43	37	34	51	45	44		
	2008	24	40	33	51	43	46	48	44	39
LK	2006	40	53	47	51	52	53	53		
	2007	37	49	44	39	44	54	46		
	2008	40	51	46	55	50	56	54	56	53
PS	2006	29	38	34	41	42	53	44		
	2007	27	33	32	34	40	59	44		
	2008	32	42	38	44	43	63	50	48	46
SRE	2006	39	48	45	44	56	44	50		
	2007	34	45	41	38	44	41	41		
	2008	37	49	45	54	44	53	51	53	52
WS	2006	59	62	63	62	65	61	65		
	2007	59	58	59	60	61	65	63		
	2008	60	66	64	70	70	74	72	73	68
Charter	2006	36	49	44	39	58	43	51		
	2007	37	49	44	25	51	31	37		
	2008	52	59	56	47	33	38	41	57	45
MCAA	2006	87	90	91	91	89	77	90		
	2007	89	85	88	91	88	85	91		
	2008	89	90	91	94	89	83	92	91	88

Beginning in 2008, scores are based on the 2000 norms establishing base line data and should not be compared to prior year's results.

**Grade 5**

ITBS NPR		Reading			Math			
		Voc.	Compr.	Total	Conc./Est.	Prob. Sol.	Compu.	Total
System	2006	45	54	49	60	56	58	59
	2007	48	56	52	62	55	58	59
	2008	46	55	51	50	53	49	52
ALB	2006	61	66	64	67	65	59	65
	2007	67	61	64	63	58	54	60
	2008	63	68	66	63	70	61	67
DL	2006	24	35	31	42	42	45	42
	2007	30	43	37	47	45	52	46
	2008	25	43	34	38	42	36	37
HH	2006	31	43	37	63	49	68	60
	2007	32	47	39	51	40	68	51
	2008	25	44	35	32	39	37	34
LK	2006	26	37	33	46	39	54	44
	2007	33	45	39	53	43	53	48
	2008	44	47	44	39	38	42	38
PS	2006	29	37	34	45	44	52	45
	2007	30	42	36	51	43	58	49
	2008	23	37	31	36	40	43	38
SRE	2006	32	49	41	51	48	41	46
	2007	28	48	39	45	43	45	43
	2008	33	52	43	37	40	41	38
WS	2006	62	60	61	60	59	61	60
	2007	68	67	68	73	65	59	68
	2008	61	61	61	60	57	66	61
Charter	2006	52	59	55	56	54	32	45
	2007	31	37	35	43	38	24	34
	2008	42	52	46	41	45	30	38
MCAA	2006	90	87	90	91	87	82	90
	2007	90	84	88	91	86	76	88
	2008	90	83	88	90	89	79	89

Beginning in 2008, scores are based on the 2005 norms establishing base line data and should not be compared to prior year's results.

**Grade 6**

ITBS NPR		Reading			Math			
		Voc.	Compr.	Total	Conc./Est.	Prob. Sol.	Compu.	Total
System/MSGA	2006	49	55	52	59	57	58	58
	2007	48	49	48	53	47	49	49
	2008	47	49	47	52	45	50	48

Beginning in 2007, scores are based on the 2005 norms establishing base line data and should not be compared to prior year's results.

**Grade 7**

ITBS NPR		Reading			Math				Soc Stu	Science
		Voc.	Compr.	Total	Conc./Est.	Prob. Sol.	Compu.	Total	Total	Total
System/MMS	2006	51	48	49	60	52	57	56	NA	NA
	2007	43	47	44	49	48	46	47	NA	NA
	2008	47	49	48	52	52	43	49	53	48

Beginning in 2008, scores are based on the 2000 norms establishing base line data and should not be compared to prior year's results.

**Grade 8**

ITBS NPR		Reading			Math			
		Voc.	Compr.	Total	Conc./Est.	Prob. Sol.	Compu.	Total
System/MMS	2006	48	46	47	58	50	66	59
	2007	41	44	43	52	48	48	49
	2008	43	44	43	48	49	42	47

Beginning in 2008, scores are based on the 2005 norms establishing base line data and should not be compared to prior year's results.

**GRADE 4 Demographics**

ITBS NPR		Total NPR	Asian	Black	Hispanic	White	ELL	Spec. Ed.	Male	Female
Reading	2008	55	58	51	37	85	30	22	54	56
Math	2008	63	78	55	54	85	47	30	62	63
Soc Stu	2008	63	62	58	50	85	45	29	64	63
Science	2008	62	62	54	50	84	41	31	63	62

Beginning in 2008, scores are based on the 2005 norms establishing base line data and should not be compared to prior year's results.

**GRADE 7 Demographics**

ITBS NPR		Total NPR	Asian	Black	Hispanic	White	ELL	Spec. Ed.	Male	Female
Reading	2008	48	53	45	32	77	13	20	44	51
Math	2008	49	79	43	37	74	26	26	47	51
Soc Stu	2008	53	62	49	39	75	22	24	49	57
Science	2008	48	72	43	33	73	25	24	46	52

Beginning in 2008, scores are based on the 2005 norms establishing base line data and should not be compared to prior year's results.