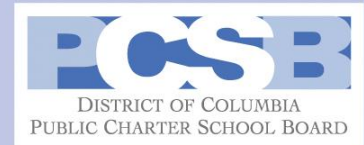


Early Childhood PMF DC CAS Equating for Norm Referenced Assessments

Tuesday, October 7, 2014



Norm Referenced Assessments

Business Rule agreed upon by task force February 2014:

Norm referenced Achievement Metrics:

Make the achievement target the 40th percentile/stanine 5 unless the probability of students subsequently scoring proficient on the DC CAS is 45% or lower at that level and the probability increases substantially (above 55%) at the next decile/stanine.

The level can be lowered if the research supports this finding. For the first three years, the achievement level will not be increased or decreased more than one level above or below the 50th percentile/stanine 5.

*Business rule can only be implemented if power analysis is .80 or greater and desired n has been met

Norm Referenced Changes for 2014-15

Assessment	Business Rule Implemented Prior to Equating	2014 Equating
NWEA MAP - Math	40 th percentile	No change
NWEA MAP - Reading	40 th percentile	No change
GMADE – Math	Stanine 5	No change
SAT 10 – Math	Stanine 5	No change
SAT 10 – Reading	Stanine 6*	No change
Terra Nova – Math	40 th percentile	No change
Terra Nova - Reading	40 th percentile	No change

* This assessment was increased based on business rule last year for 2014-15

Assessment: MAP

Subject: Reading

Grades: 2

Current Achievement Indicator: 40th percentile

Proposed Achievement Indicator: no change

P=.001

Power=.99

Desired Ns = 18

ScoreType	Decile	% Prof	N
Percentile	0	3%	102
Percentile	1	12%	57
Percentile	2	20%	79
Percentile	3	30%	44
Percentile	4	49%	75
Percentile	5	56%	70
Percentile	6	69%	51
Percentile	7	80%	56
Percentile	8	95%	40
Percentile	9	100%	29

Assessment: MAP

Subject: Math

Grades: 2

Current Achievement Indicator: 40th percentile

Proposed Achievement Indicator: no change

ScoreType	Decile	% Prof	N
Percentile	0	5%	37
Percentile	1	11%	55
Percentile	2	29%	58
Percentile	3	42%	67
Percentile	4	56%	80
Percentile	5	80%	60
Percentile	6	78%	49
Percentile	7	85%	59
Percentile	8	94%	48
Percentile	9	98%	41

P= .001
Power= 1
Desired Ns = 6

Assessment: GMADE

Subject: Math

Grades: K-2

2014-15 Achievement Indicator: Stanine 5

Proposed Achievement Indicator: No change

ScoreType	Level	% Prof	N
Stanine	2	0%	1
Stanine	3	0%	6
Stanine	4	18%	17
Stanine	5	73%	11
Stanine	6	71%	21
Stanine	7	0%	2
Stanine	8	80%	5
Stanine	9	80%	5

Assessment: SAT 10

Subject: Math

Grades: K-2

Current Achievement Indicator: Stanine 5

Proposed Achievement Indicator: No change

P = .004

Power = .81

ScoreType	Level	% Prof	N
Stanine	1	0%	1
Stanine	4	14%	7
Stanine	5	36%	11
Stanine	6	50%	22
Stanine	7	58%	12
Stanine	8	33%	3
Stanine	9	67%	3

Assessment: TerraNova

Subject: Math

Grades: K-2

Current Achievement Indicator: 40th Percentile

Proposed Achievement Indicator: No change

ScoreType	Decile	% Prof	N
Percentile	0	0%	20
Percentile	1	7%	14
Percentile	2	29%	7
Percentile	3	4%	25
Percentile	4	33%	18
Percentile	5	48%	23
Percentile	6	52%	21
Percentile	7	63%	19
Percentile	8	71%	21
Percentile	9	79%	24

P= .62
Power= .08
Desired Ns = 379

Assessment: TerraNova

Subject: Reading

Grades: K-2

Current Achievement Indicator: 40th Percentile

Proposed Achievement Indicator: No change

ScoreType	Decile	% Prof	N
Percentile	0	2%	44
Percentile	1	0%	12
Percentile	2	23%	30
Percentile	3	43%	23
Percentile	4	55%	33
Percentile	5	75%	24
Percentile	6	68%	25
Percentile	7	75%	16
Percentile	8	90%	20
Percentile	9	96%	23