

# Achieving With Data



Presented by  
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Pojoaque Valley Intermediate School  
Pojoaque Valley School District  
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# Pojoaque Valley Intermediate School



- Serve students in Grades 4 and 5
- Approximately 280 students
- Staff of about 30
- Offer instruction in Math, Language Arts, Science (ISEC-Inquiry Science Education Consortium), Social Studies, Bilingual/Tewa
- Specials include Physical Education, Computer Lab, Library, Integrated Art, and Career Readiness

# District Wide Focus Areas

- Student Achievement
- School Culture



# Effective Use of Short Cycle Assessment Data to Inform Instructional Practices



# Performance Driven School System

- Culture of data use and continuous improvement
- Implement a system to organize data
- Selecting the right data
- Building school capacity for data informed decisions
- Analyzing and acting on data to improve performance



# Culture of data use and continuous improvement

- Trust
- Shift in the thinking
- Support instruction and learning
- Transparency
- Keeping data



# Implement a system to organize data

- Structures and steps in place.
- Timely access to data
- Communication
- Collaboration



# Short Cycle Assessment: Discovery

## Step 1: Collect and Chart Data

## Step 2: Analyze Strengths and Obstacles

- List strengths of students who WERE **proficient and higher** by examining their work.
- List obstacles or reasons why **non-proficient** students did not achieve proficiency. What were their errors? Is there a trend? Are there common errors? What is preventing these students from becoming proficient? Are there misconceptions about concepts/skills?

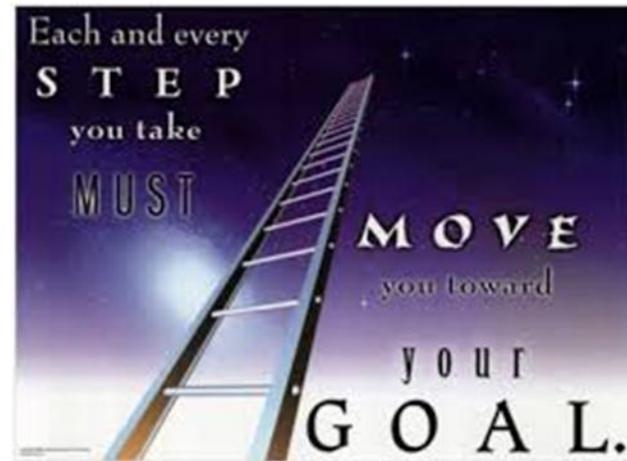


# Short Cycle Assessment: Discovery.....(continued)

**Step 3: Establish Goals: Set, Review, Revise**

**Step 4: Select Instructional Strategies**

***\*\*\*Bring individual Completed Data Chart to PLC***





# Selecting the right data



# Building school capacity for data informed decisions

- Professional development
- Time for collaboration
- Professional Learning Communities (PLCs)
- School leadership team



# Analyzing and acting on data to improve performance

- Strengths and opportunities for improvement
- Keeping the focus
- Support
- Differentiated instruction



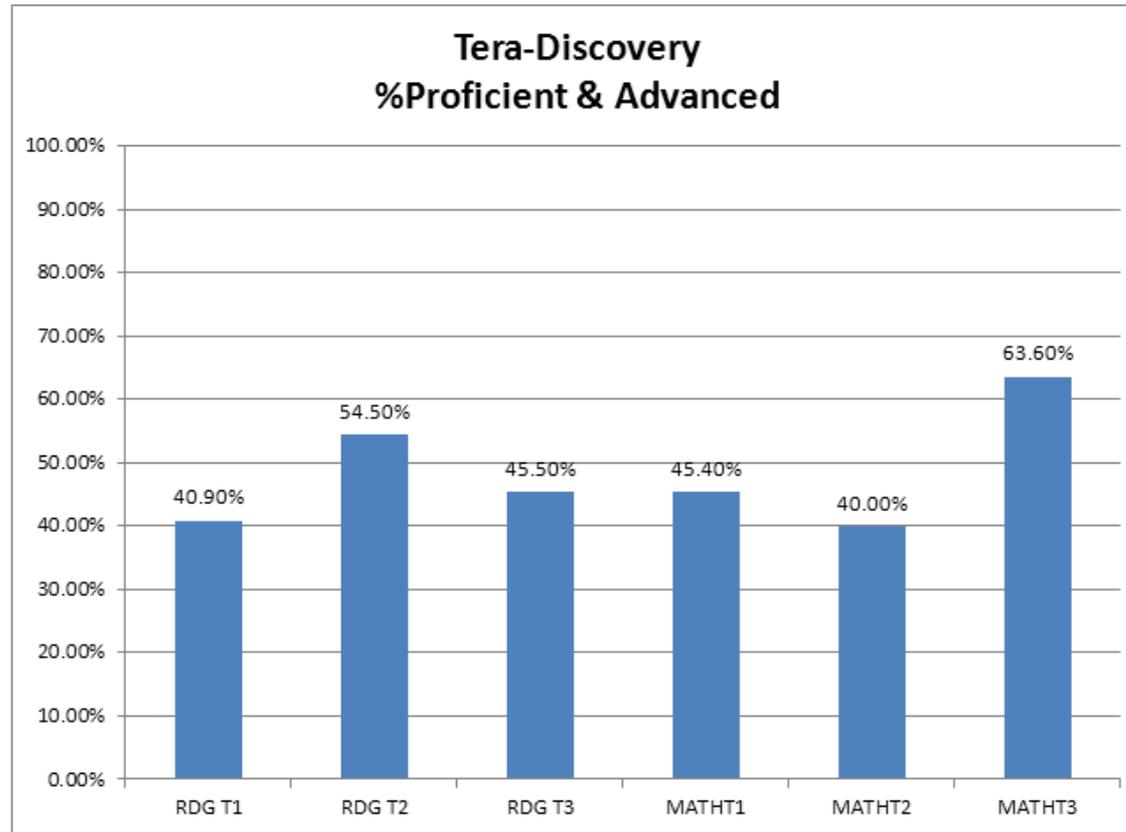
# Whole School Data



District Report for NM\_POJOAQUE VALLEY SCHOOL DIST, NM  
 Drilldown Report for POJOAQUE VALLEY INTERM SCH by Subject  
 Mathematics

	% Correct	Median State %ile	Avg. Scale Score	Advanced		Proficient		Nearing Proficiency		Beginning		Totals	
				#	%	#	%	#	%	#	%	#	%
<b>Test 1 Results</b> NM Math Grade 4 (ABCD)													
<a href="#">Grade 4</a>	52.1	69	1459	2	1.4	43	30.5	61	43.3	35	24.8	141	100
<b>Test 1 Results</b> NM Math Grade 5 (ABCD)													
<a href="#">Grade 5</a>	45.9	57	1518	14	10.7	32	24.4	51	38.9	34	26.0	131	100
<b>Test 2 Results</b> NM Math Grade 4 (ABCD)													
<a href="#">Grade 4</a>	50.3	56	1474	10	7.1	47	33.3	63	44.7	21	14.9	141	100
<b>Test 2 Results</b> NM Math Grade 5 (ABCD)													
<a href="#">Grade 5</a>	42.7	43	1530	11	8.4	22	16.8	61	46.6	37	28.2	131	100
<b>Test 2 Results</b> NM Spanish Math Grade 4 (ABCD) (Spanish)													
<a href="#">Grade 4</a>	26.5	11	1388	0	0.0	0	0.0	0	0.0	1	100.0	1	100
<b>Test 3 Results</b> NM Math Grade 4 (ABCD)													
<a href="#">Grade 4</a>	50.8	61	1528	22	15.6	49	34.8	49	34.8	21	14.9	141	100
<b>Test 3 Results</b> NM Math Grade 5 (ABCD)													
<a href="#">Grade 5</a>	44.3	37	1541	15	11.5	31	23.7	48	36.6	37	28.2	131	100
<b>Test 3 Results</b> NM Spanish Math Grade 4 (ABCD) (Spanish)													
<a href="#">Grade 4</a>	29.4	14	1447	0	0.0	0	0.0	0	0.0	1	100.0	1	100

# Individual Classroom Data



# Which math strand do I need to work on?

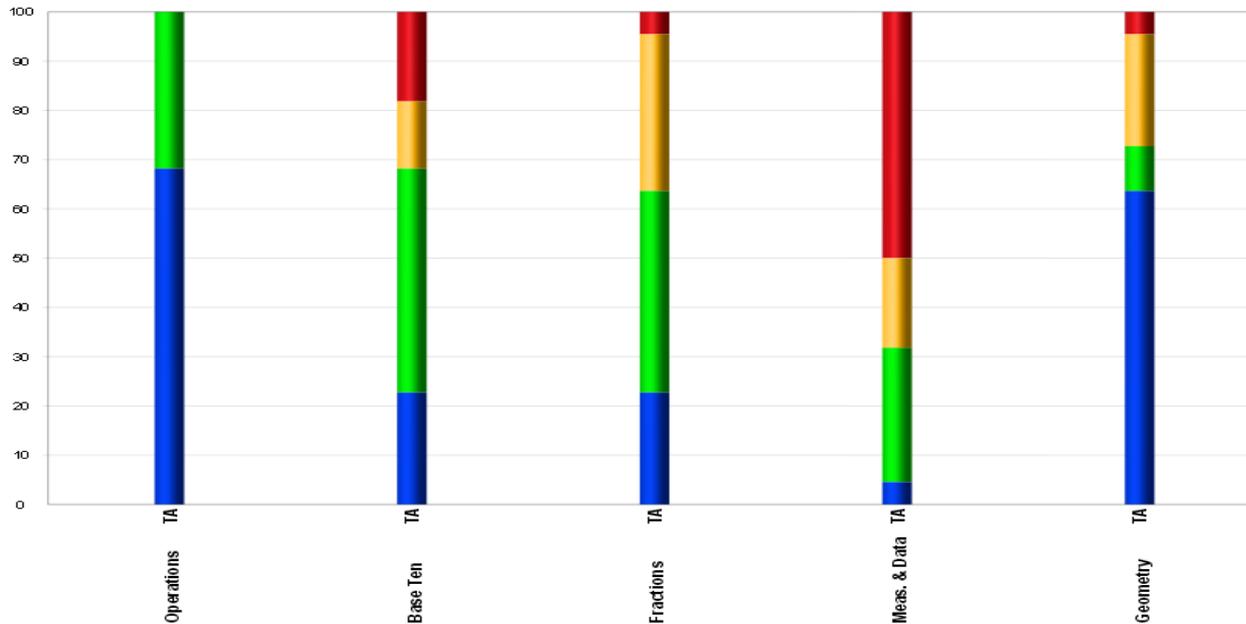
## Discovery Class Summary Report

EDUCATION™ School: POJOAQUE VALLEY INTERM SCH

Test A of ABCD (22 students)  
 Teacher: TERA DEINES  
 Class: Deines 5th Math - Period 5 (virtual class)  
 Grade: Grade 5  
 Subject: Mathematics  
 School Year: 2013-2014  
 Generated: August 22, 2014

Test A / 22 students

Proficiency By Skill  
 Level 1  
 Level 2  
 Level 3  
 Level 4



Lvl 1	0.0%	18.2%	4.5%	50.0%	4.5%
Lvl 2	0.0%	13.6%	31.8%	18.2%	22.7%
Lvl 3	31.8%	45.5%	40.9%	27.3%	9.1%
Lvl 4	68.2%	22.7%	22.7%	4.5%	63.6%

# What are the students' proficiency levels in each strand? How should I group my students?

**Discovery Student Skill Report**  
 EDUCATION™ School: POJOAQUE VALLEY INTERM SCH

Test A of ABCD (22 students)  
 Teacher: TERA DEINES  
 Class: Deines 5th Math - Period 5 (virtual class)  
 Grade: Grade 5  
 Subject: Mathematics  
 School Year: 2013-2014  
 Generated: August 22, 2014

Proficiency by Subject  
 Beginning (0-9 correct) [Red]  
 Nearing Proficiency (10-15 correct) [Orange]  
 Proficient (16-24 correct) [Green]  
 Advanced (25-34 correct) [Blue]  
 determined by # correct

	Operations	Base Ten	Fractions	Meas. & Data	Geometry		
Student 1	Lvl 4	Lvl 3	Lvl 4	Lvl 3	Lvl 4	Adv	25
Student 2	Lvl 3	Lvl 4	Lvl 4	Lvl 3	Lvl 4	Prof	23
Student 3	Lvl 4	Lvl 3	Lvl 3	Lvl 3	Lvl 4	Prof	21
Student 4	Lvl 4	Lvl 1	Lvl 3	Lvl 2	Lvl 1	Near	13
Student 5	Lvl 4	Lvl 4	Lvl 2	Lvl 2	Lvl 4	Prof	21
Student 6	Lvl 4	Lvl 3	Lvl 3	Lvl 2	Lvl 3	Prof	16
Student 7	Lvl 4	Lvl 4	Lvl 4	Lvl 4	Lvl 4	Adv	30
Student 8	Lvl 3	Lvl 3	Lvl 2	Lvl 1	Lvl 4	Near	15
Student 9	Lvl 4	Lvl 4	Lvl 4	Lvl 3	Lvl 4	Adv	26
Student 10	Lvl 3	Lvl 4	Lvl 3	Lvl 3	Lvl 4	Prof	20
Student 11	Lvl 3	Lvl 1	Lvl 3	Lvl 1	Lvl 2	Near	11

# Item Analysis

*What specific questions are students getting incorrect?*



Test A of ABCD (22 students)  
 Teacher: TERA DEINES  
 Class: Deines 5th Math - Period 5 (virtual class)  
 Grade: Grade 5  
 Subject: Mathematics  
 School Year: 2013-2014  
 Generated: August 21, 2014

Item Mastery  
 0% to 39% correct ■  
 40% to 60% correct ■  
 61% to 100% correct ■

determined by % correct  
200236 33

Q.#	Ans	Right	Wrong	Code	Reporting Category	Reporting Subcategory	Code	Reporting Category	Reporting Subcategory		
		#	%	#	%						
Common Core 2010						NM Reporting Categories					
Mathematics											
41	D	15	68	7	32	5.G.2	Geometry	5.G.2 Locate Points in First Quadrant	2-A.1	Algebra	2-A.1 Ordered Pairs
42	B	7	32	15	68	5.NBT.7	Number & Operations in	5.NBT.7 Operations with Decimals	1-B.2	Numbers and Operations	1-B.2 Add/Subtract Decimals
43	A	21	95	1	5	5.NBT.3	Number & Operations in	5.NBT.3 Decimals to Thousandths	1-A.3	Numbers and Operations	1-A.3 Place Value
44	A	6	27	16	73	5.NBT.4	Number & Operations in	5.NBT.4 Round Decimals	1-C.3	Numbers and Operations	1-C.3 Estimation Strategies
45	A	6	27	16	73	5.NF.7	Number & Operations - F	5.NF.7 Divide Fractions			
46	B	14	64	8	36	5.NF.2	Number & Operations - F	5.NF.2 Add and Subtract Word Proble	1-B.8	Numbers and Operations	1-B.8 Problem Solving with Additic
47	B	14	64	8	36	5.NBT.5	Number & Operations in	5.NBT.5 Multiply Whole Numbers	1-C.1	Numbers and Operations	1-C.1 Add/Subtract/Multiply/Divide
48	D	12	55	10	45	5.NF.1	Number & Operations - F	5.NF.1 Add and Subtract Fractions	1-B.3	Numbers and Operations	1-B.3 Add/Subtract Fractions/Mixe
49	A	10	45	12	55	5.NF.5	Number & Operations - F	5.NF.5 Multiplication as Scaling	1-A.2	Numbers and Operations	1-A.2 Value of Numbers
50	D	3	14	19	86	5.MD.4	Measurement & Data	5.MD.4 Measure Volume	4-A.3	Measurement	4-A.3 Linear Measurement, Weight

# A look at individual students and how they responded to questions.....

Reporting Categories	Operations				Base Ten							Fractions							Meas. & Data					Geometry					Proficiency Number Correct ( out of 34 )											
Question Number	52	56	57	70	42	43	44	47	58	61	64	65	74	45	46	48	49	51	54	62	67	68	50	55	60	63	66	69	41	53	59	71	72	73	Proficiency Number Correct ( out of 34 )	Proficiency Percent Correct	Total Number Correct	Scale Score		
State Code	5.OA.2	5.OA.1	5.OA.2	5.OA.1	5.NBT.7	5.NBT.3	5.NBT.4	5.NBT.5	5.NBT.6	5.NBT.7	5.NBT.6	5.NBT.5	5.NBT.4	5.NF.7	5.NF.2	5.NF.1	5.NF.5	5.NF.1	5.NF.3	5.NF.2	5.NF.4	5.NF.6	5.MD.4	5.MD.5	5.MD.5	5.MD.2	5.MD.1	5.MD.1	5.G.2	5.G.4	5.G.3	5.G.1	5.G.2	5.G.3	Proficiency Number Correct	Proficiency Percent Correct	Total Number Correct	Scale Score		
Item Difficulty	M	M	H	M	M	M	H	M	H	H	M	M	M	H	M	M	M	H	M	M	M	H	M	H	M	M	H	M	M	H	M	M	M	M	Proficiency Number Correct	Proficiency Percent Correct	Total Number Correct	Scale Score		
Correct Answer	A	B	A	A	B	A	A	B	C	C	B	A	B	A	B	D	A	C	C	B	A	B	D	C	D	D	C	D	D	D	D	B	D	A	Proficiency Number Correct	Proficiency Percent Correct	Total Number Correct	Scale Score		
Student 1					C		C			A			A	C			B	D									A			C			25	74%	28	1617				
Student 2	B	C			C							C		C				D	A							A			B	B		23	68%	28	1594					
Student 3			D				B			B			A	C	C			B	C								C				B	21	62%	25	1572					
Student 4		A			A	C	C	D	A			C	D	B			D	B			A				B	B	B		A		C	C	C	A		C	13	38%	14	1491
Student 5	B						C			A				C	A	B		B	C		A				A	B		C		B	21	62%	23	1572						
	B				C		D		A		D	D		C		B			B	D		C			A	B	A			A	16	47%	19	1521						
										D																			B			30	88%	34	1699					
	C		D		C		C		A				C			B	C	A	C	D					A	B		C	B	A	15	44%	17	1511						
	C								B					C											A	B			B		26	76%	29	1631						

# Monitor Growth

MATH

Test 1 Score	Test 1 Level	Test 2 Score	Test 2 Level	1&2	Test 3 Score	Test 3 Level	2&3	1 & 3
1617	Adv	1594	Prof	-23	1629	Prof	35	12
1594	Prof	1573	Prof	-21	1586	Prof	13	-8
1572	Prof	1584	Prof	12	1684	Adv	100	112
1491	Near	1435	Beg	-56	1467	Beg	32	-24
1572	Prof	1552	Prof	-20	1586	Prof	34	14
1521	Prof	1542	Near	21	1545	Prof	3	24
1699	Adv	1628	Adv	-71	1629	Prof	1	-70
1511	Near	1563	Prof	52	1575	Prof	12	64
1631	Adv	1654	Adv	23	1654	Adv	0	23
1561	Prof	1641	Adv	80	1641	Prof	0	80
1470	Near	1499	Near	29	1575	Prof	76	105
1458	Near	1463	Beg	5	1479	Beg	16	21
1491	Near	1488	Beg	-3	1535	Near	47	44
1501	Near	1532	Near	31	1596	Prof	64	95
1531	Prof	1499	Near	-32	1565	Prof	66	34
1582	Prof	1542	Near	-40	1555	Near	13	-27
1511	Near	1510	Near	-1	1565	Prof	55	54
1458	Near	1552	Prof	94	1586	Prof	34	128
1501	Near	1573	Prof	72	1629	Prof	56	128
1491	Near	1510	Near	19	1545	Near	35	54
1511	Near	1594	Prof	83	1524	Near	-70	13
1480	Near	1510	Near	30	1524	Near	14	44

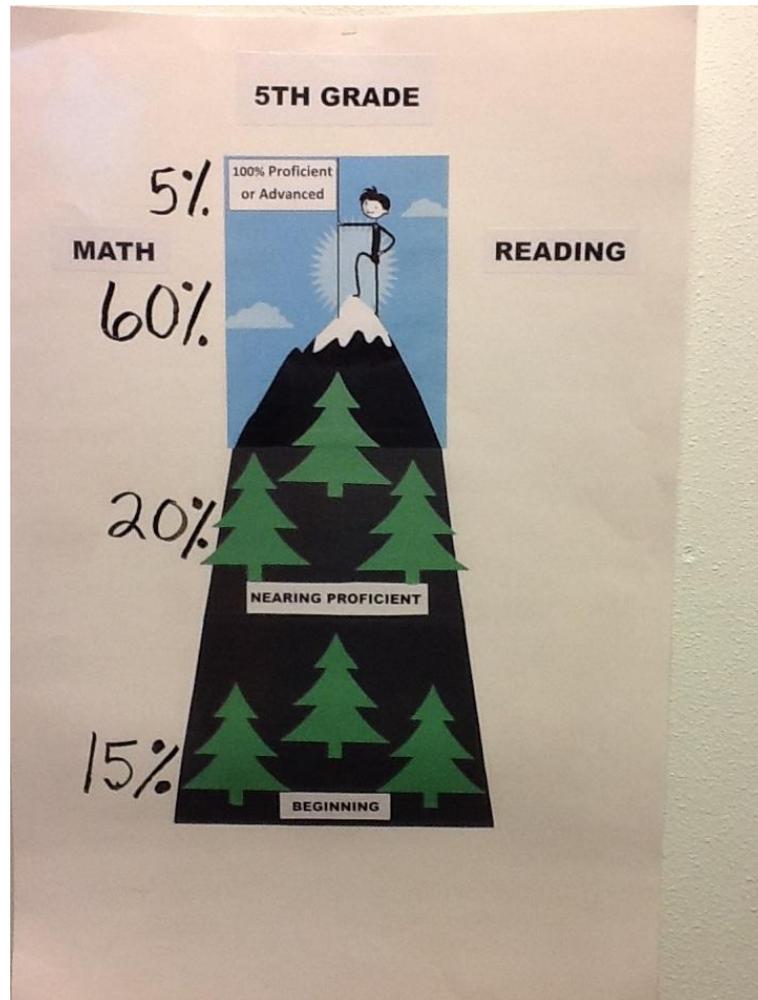
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# “Data War Room”



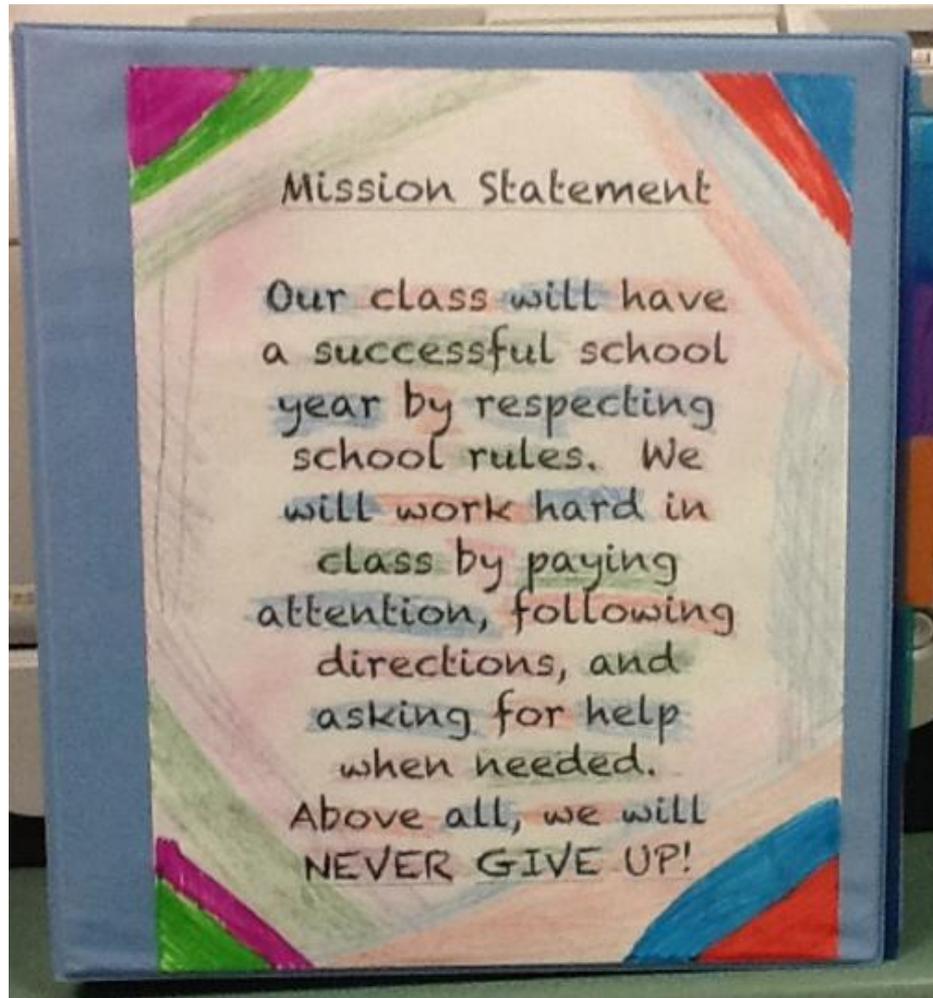
# Grade Level Data Monitored



# Classroom Data Monitored



# Student Data Binder



# Questions?



## Contact Information

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