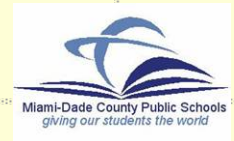


# National Science Foundation Systemic Initiatives

## Web-Based Students Performance Indicators

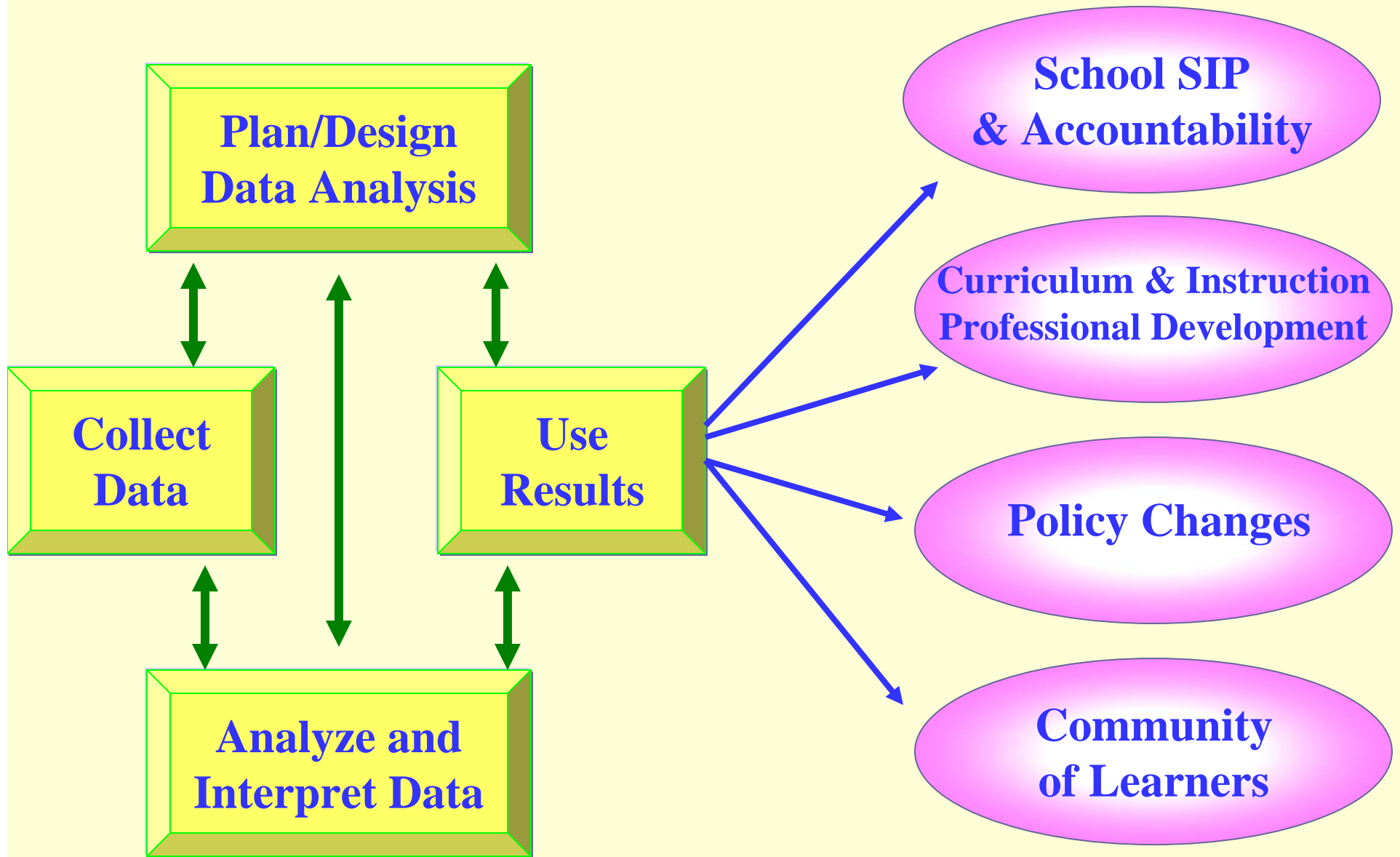
Presented by:

Dr. Yuwadee Wongbundhit, Project Director  
Dr. Gladys Barrio, Science Supervisor  
Mrs. Yuria Orihuela, Mathematics Supervisor  
Miami-Dade County Public Schools



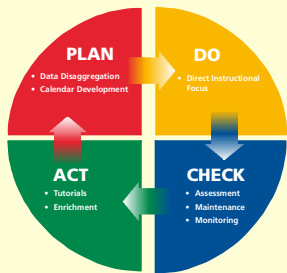
2005 PI/PD Leadership Institute, November 3-6, 2005

# Ongoing Quality Assessment: Data-Driven-Decision Making for Systemic Reform



# Florida Department of Education Bureau of School Improvement

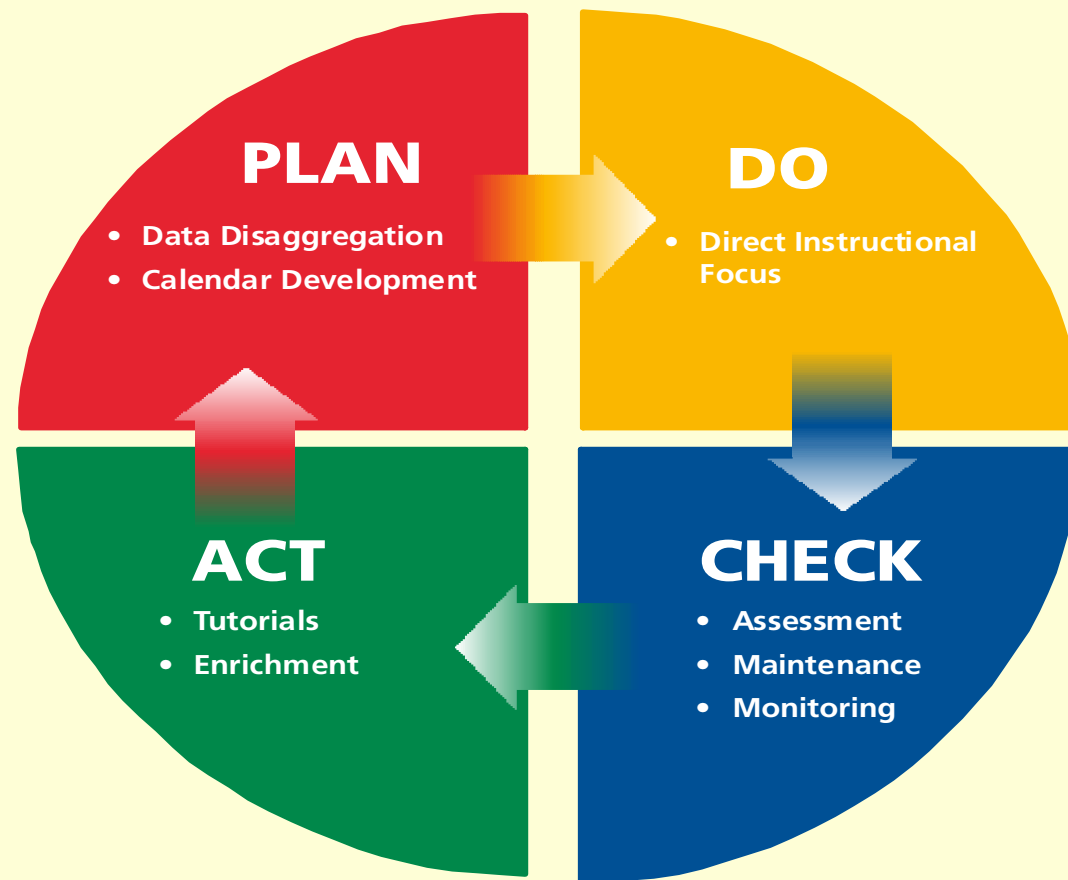
## Implementing the Florida Continuous Improvement Model (FCIM)



From Patricia Davenport and Gerald  
Anderson,

*Closing the Achievement Gap: No Excuses*  
American Productivity Quality Center, 2002

# PLAN, DO, CHECK, ACT (PDCA)

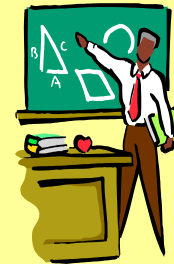


# Effective Classroom Instruction

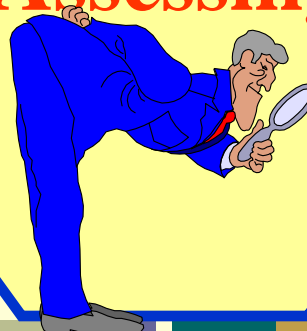
**Planning**



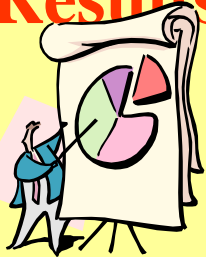
**Teaching**



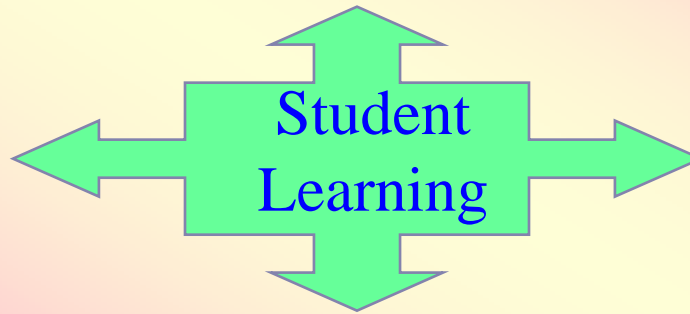
**Assessing**



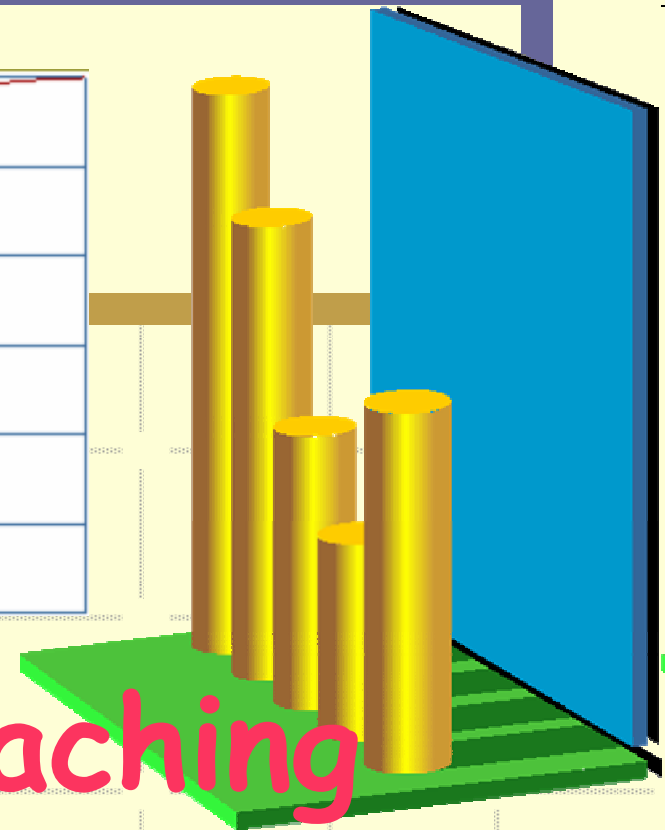
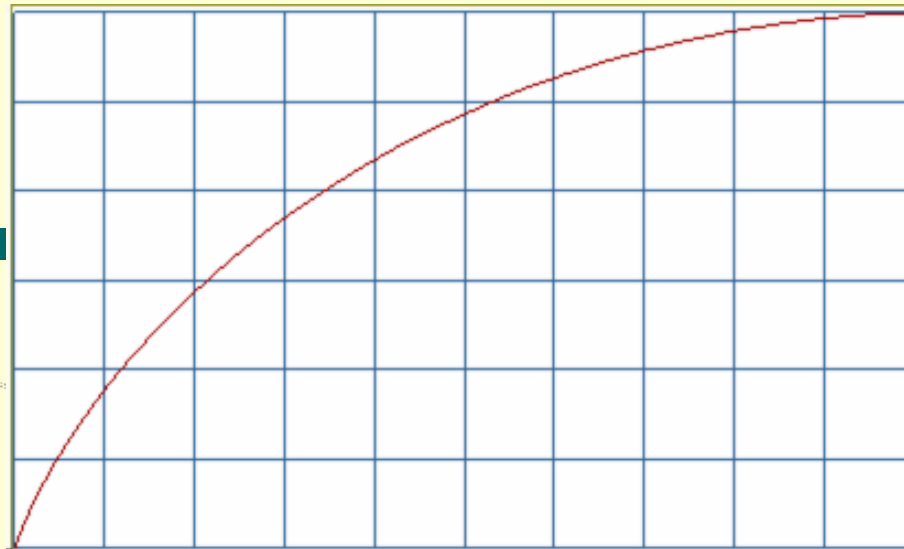
**Using Results**



**Student Learning**



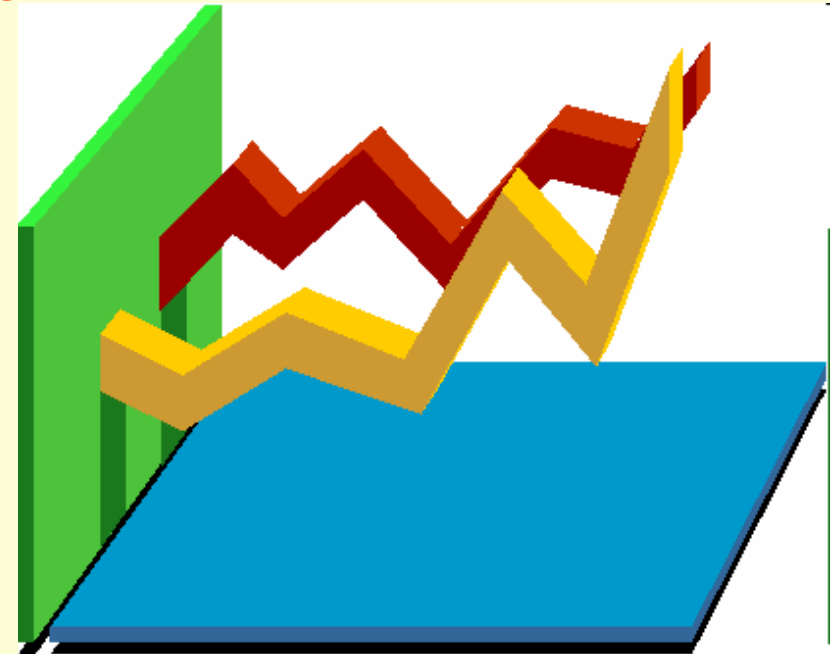
# Monitoring Student Achievement Progress



Improving Teaching  
and Instruction

# FCAT<sup>™</sup> MATH Developmental Scores

- Cross-sectional Trend
- Longitudinal Trend
- Growth over time
- Scatter-plots





# Web-Based Student Performance Indicators

## **SPI**

**Provide access to  
Florida  
Comprehensive  
Assessment  
Test (FCAT)  
Results**

**Planning before  
school starts**

## **Edusoft**


**Provide access to  
district-wide and  
classroom  
assessment  
Results**

**Planning throughout  
the year**





# SPI Overview

- Web-based application
  - Intended to facilitate data-driven instructional decisions at the classroom and school levels.
  - Utilizing web screens, dynamic reports, and data downloaded components.
  - Available through the M-DCPS Intranet at [intranet.dadeschools.net](http://intranet.dadeschools.net)
  - Every principal has access to SPI and can authorize any staff in their work location.
- 

# Student Performance Indicators System (SPI)

Web-Screen Reports

Student data to be downloaded

FCAT Statistical Reports  
Student Class List  
Demographic Information  
FCAT Subject Scores  
FCAT Content Scores  
AIP/ISSP

SPI templates generates  
54 FCAT reports



# Edusoft

## Scoring & Reporting

### Platform

[www.edusoft.com](http://www.edusoft.com)

**M-DCPS Contact Person**

**Ms. Linda Trupia, Director of Instructional Technology,**

**305-995-3061, [ltrupia@dadeschools.net](mailto:ltrupia@dadeschools.net)**

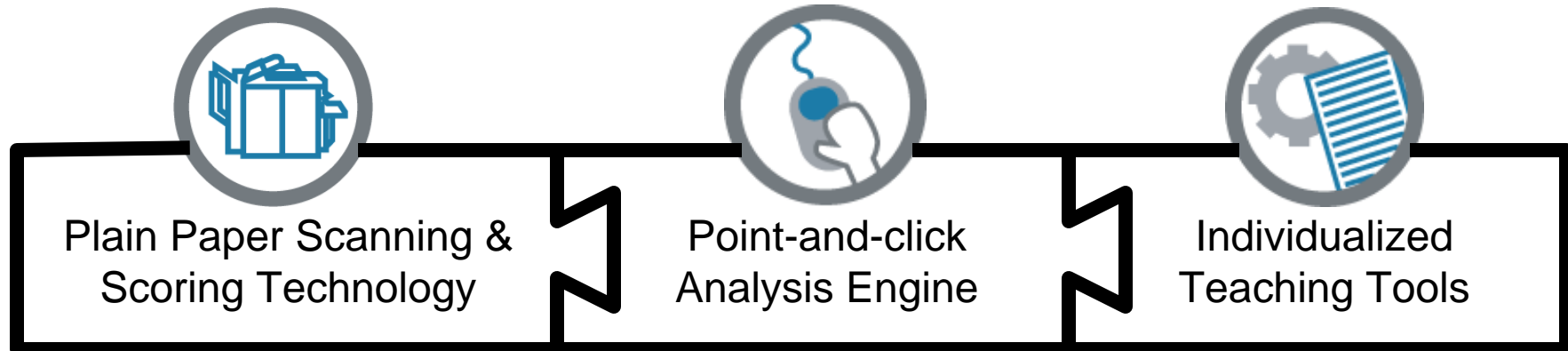
*Turning Information Into Achievement*

# Edusoft Vision



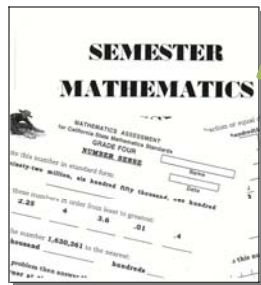
## A comprehensive assessment platform

### Paper-to-Web technology

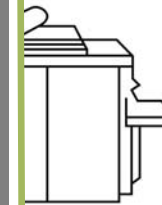
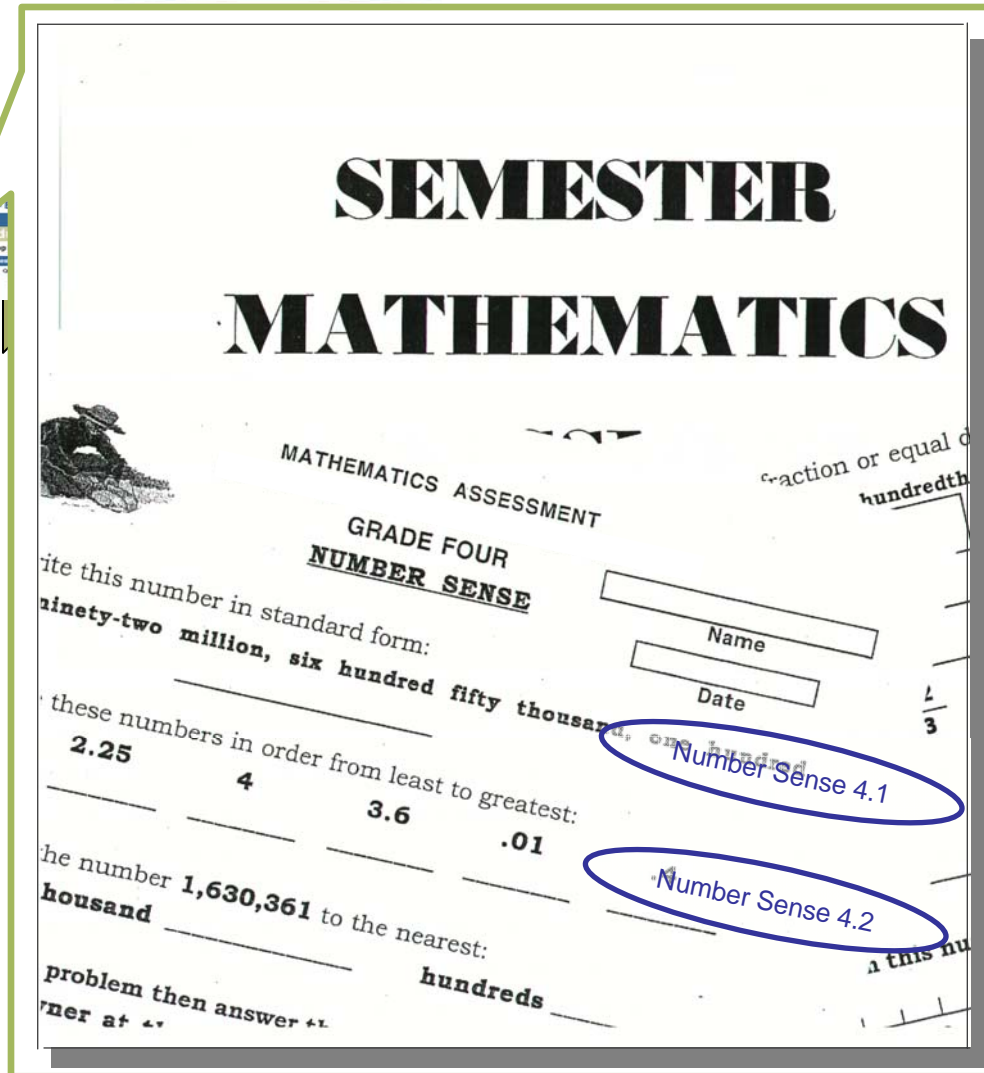


**Closing the gap between assessment  
and instruction**

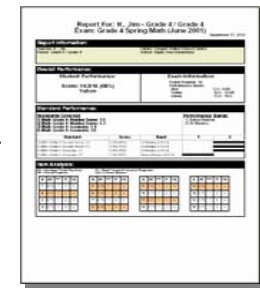
# Paper-to-Web: How It Works



Existing paper tests with questions aligned to standards

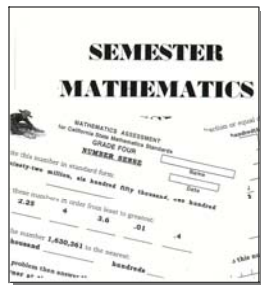


Digitally graded  
entered  
database

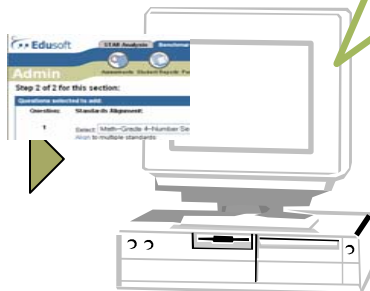


Online analysis of results, reports

# Paper-to-Web: How It Works



Existing paper tests with questions aligned to standards



Create answer key in Edusoft System

**Edusoft** STAR Analysis Benchmark Exams Teacher Tools

Assessments Student Reports Period Reports Intervention Groups Settings

**Admin** Help Logout

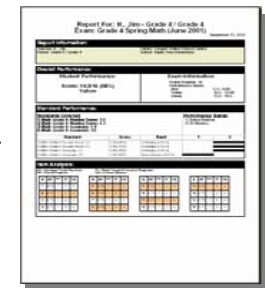
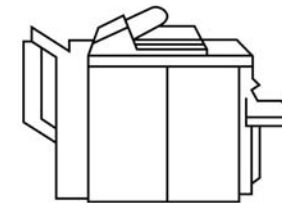
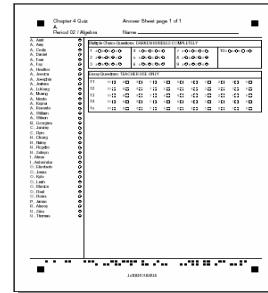
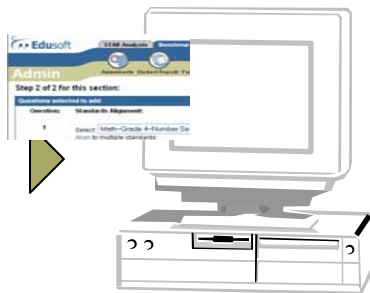
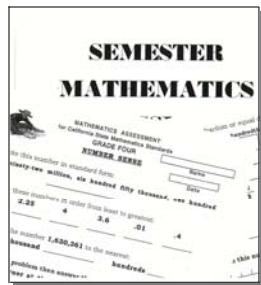
Step 2 of 2 for this section:

Questions selected to add:

Question:	Standards Alignment:	Points:	Answer:
1	Select: Math-Grade 4-Number Sense 1.1 <input type="button" value="v"/> or <a href="#">Align to multiple standards</a>	1	<input type="button" value="b"/>
2	Select: Math-Grade 4-Number Sense 2.0 <input type="button" value="v"/> or <a href="#">Align to multiple standards</a>	1	<input type="button" value="a"/>
3	Select: Math-Grade 4-Number Sense 1.0 <input type="button" value="v"/> or <a href="#">Align to multiple standards</a>	1	<input type="button" value="d"/> <input type="button" value="a"/> <input type="button" value="b"/> <input type="button" value="c"/> <input type="button" value="d"/> <input type="button" value="b"/>
4	Select: Math-Grade 4-Number Sense 2.0 <input type="button" value="v"/> or <a href="#">Align to multiple standards</a>	1	<input type="button" value="d"/>
5	Select: Math-Grade 4-Number Sense 1.2 <input type="button" value="v"/> or <a href="#">Align to multiple standards</a>	1	<input type="button" value="d"/>
6	Select: Math-Grade 4-Number Sense 1.2 <input type="button" value="v"/> or <a href="#">Align to multiple standards</a>	1	<input type="button" value="a"/>
7	Select: Math-Grade 4-Number Sense 2.0 <input type="button" value="v"/> or <a href="#">Align to multiple standards</a>	1	<input type="button" value="a"/>
8	Select: Math-Grade 4-Number Sense 1.0 <input type="button" value="v"/> or <a href="#">Align to multiple standards</a>	1	<input type="button" value="d"/>



# Paper-to-Web: How It Works



**Existing paper tests with questions aligned to standards**

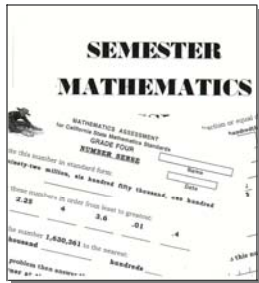
**Create answer key in Edusoft System**

**Answer sheets printed on regular paper**

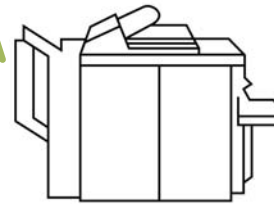
**Tests graded automatically and entered into database**

**Online analysis of results, reports**

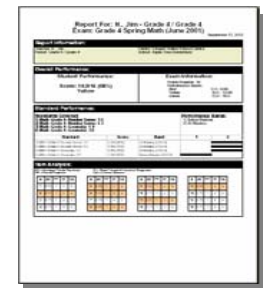
# Paper-to-Web: How It Works



Existing paper tests with questions aligned to standards

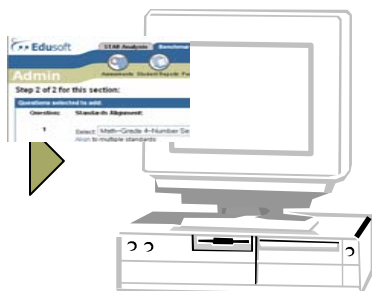
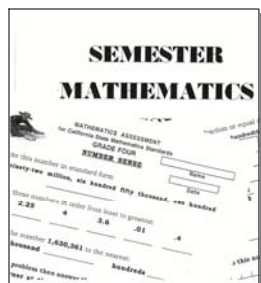


Tests graded automatically and entered into database



Online analysis of results, reports

# Paper-to-Web: How It Works

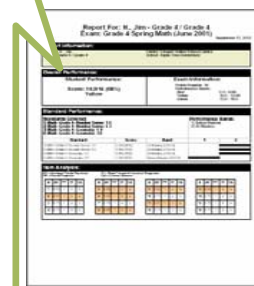


Existing paper tests with questions aligned to standards

Create answer key in Edusoft System

**Report For: H., Jim - Grade 4 / Grade 4**  
Exam: Grade 4 Spring Math (June 2001) September 13, 2002

Report Information:				
Teacher: H., Jim	School: Edusoft United School District			
Period: Grade 4 / Grade 4	School: Apple Tree Elementary			
Overall Performance:				
<b>Student Performance:</b>		<b>Exam Information:</b>		
Score: 10.9/16 (68%) Yellow		Points Possible: 16		
		Performance Bands: Red: 0.0 - 9.99 Yellow: 10.0 - 12.99 Green: 13.0 - 16.0		
Standard Performance:				
<b>Standards Covered:</b>		<b>Performance Bands:</b>		
1) Math-Grade 4-Number Sense: 1.6		1) Below Mastery		
2) Math-Grade 4-Number Sense: 2.3		2) At Mastery		
3) Math-Grade 4-Geometry: 1.4				
4) Math-Grade 4-Geometry: 2.9				
Standard:	Score:	Band:		
1) Math-Grade 4-Number Sense: 1.6	0.00 (0%)	At Mastery (0-9.9)		
2) Math-Grade 4-Number Sense: 2.3	2.04 (75%)	At Mastery (0-9.9)		
3) Math-Grade 4-Geometry: 1.4	2.04 (75%)	At Mastery (0-9.9)		
4) Math-Grade 4-Geometry: 2.9	1.80 (62%)	Below Mastery (0-9.9)		
Item Analysis:				
AV = Average Points Received PP = Points Possible		BI = Item Frequency/Item Response CA = Correct Answer		
#	AV	PP	BI	CA
1	0.00	1	C	9
2	0.00	1	C	9
3	0.75	1	A	C
4	0.75	1	B	4



Online analysis of results, reports

# Why Edusoft?



District's purpose is to provide teachers with effective, efficient, and productive tool for monitoring student performance progress aligned with the Sunshine State Standards.

- Analyze the results by district, schools, teacher, classroom, customized subgroups (LEP, Achievement levels, ESE subgroups).
- Analyze the results by Sunshine State Standards Benchmarks
- Provide item analysis reports on p-value and discrimination index.

# What our District has done



- District purchased 3-year license for all teachers and administrators; all 356 schools including charter schools (approximately 25,000 users for over 360,000 students).
- We are in the second year of the contract.
- The district also provided schools the optical scanners (1 scanner for every 500 students).

# What our District has done



- Training is provided by Edusoft and online multi-media training is available.
- On the average, about 5000 answer documents are scanned per day.
- The district student databases are updated every 5 to 6 business days by Edusoft. This minimizes manually-bubbling student information on answer documents.

# Issue and Future Growth



- Issues: at the beginning, there was delay in generating reports when implementing district-wide interim assessments, 400,000 documents within one week. This issue has been resolved by implementing the Oracle Data base system, at Edusoft.
- Future Growth: The results can be imported to District Electronic Gradebook system (Pennacle Excelsior Gradebook).