

Twenty Years of Teaching What Deming Taught for Education Transformation in 5 minutes

Second Podcast for
Deming Institute



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Lew Rhodes · 1st

Thinking Partner for Systems Leaders

In 1990 at
AASA Conference

*I think you will enjoy this
session...”*

**Deming
the Statistician
described data
in the classroom!**



Essentially, Dr. Deming taught
how education could have a
LEARNING SYSTEM
instead of an
INSPECTION SYSTEM



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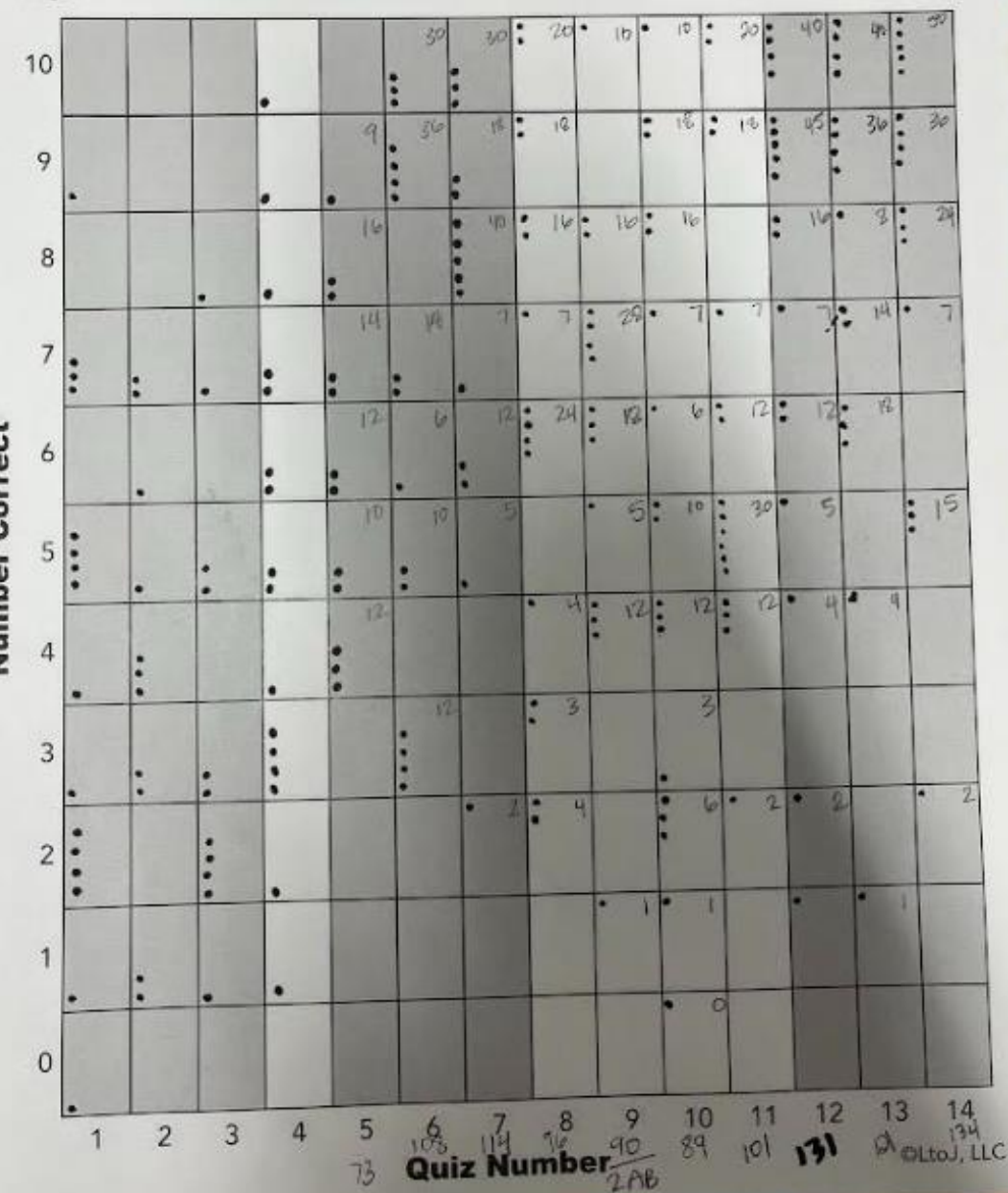
REVIEW from Podcast #1

1. Key concept list
2. Weekly quiz – $\sqrt{\text{random items}}$
3. Scatter Diagram
4. Class Run Chart



Scatter Diagram Math Fluency

Quiz 1 - 14



Create Scatter Diagram



Post
Classroom
Total

Class Run
Chart

Expansions of Dr. Deming's Learning Data Process

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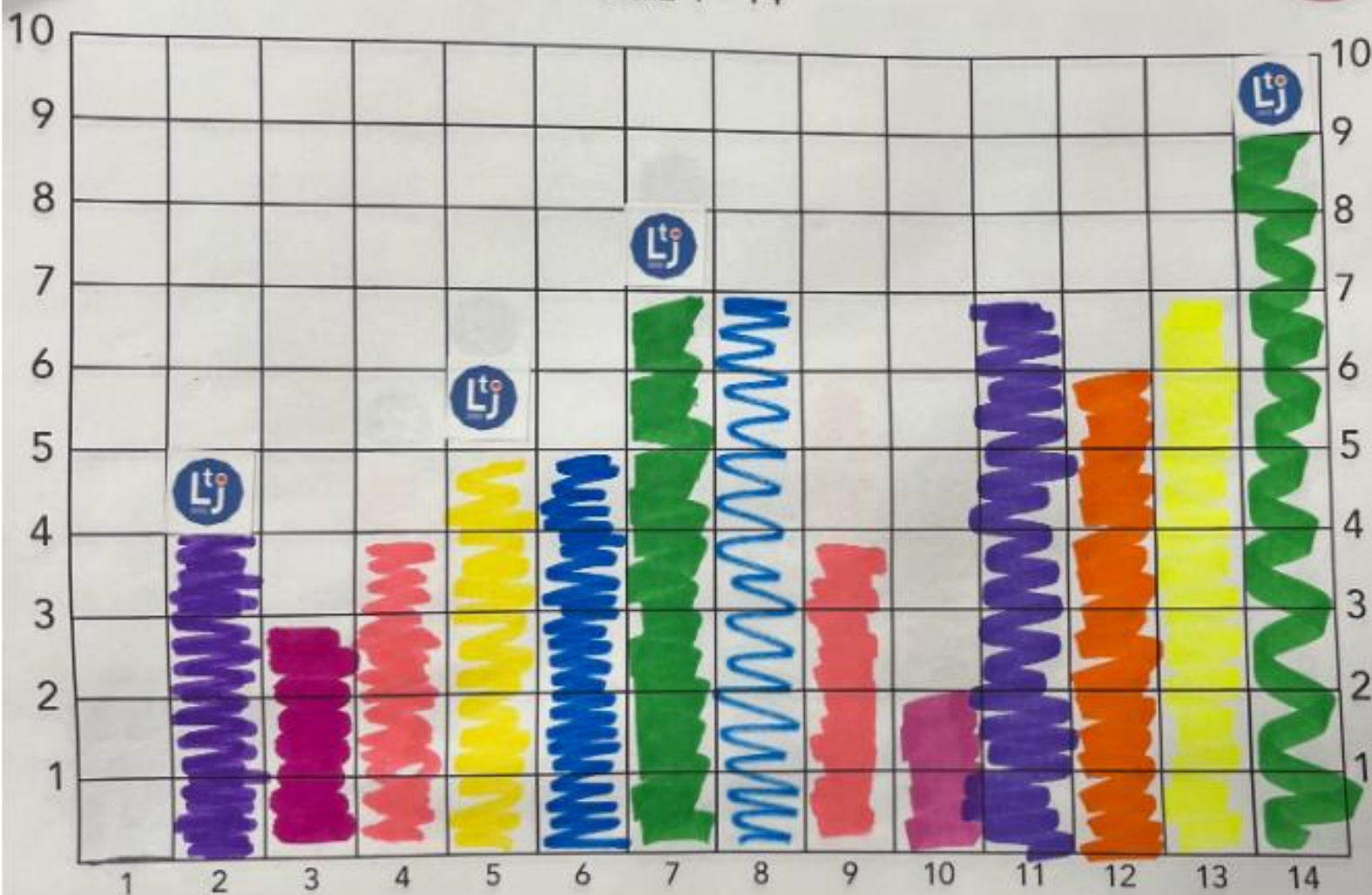
- Geometry
- Algebra II
- Algebra I
- Pre-Algebra
- Math 7

Secondary
science
decided 50%
review



Student Run Chart For Eve

Quiz 1 - 14

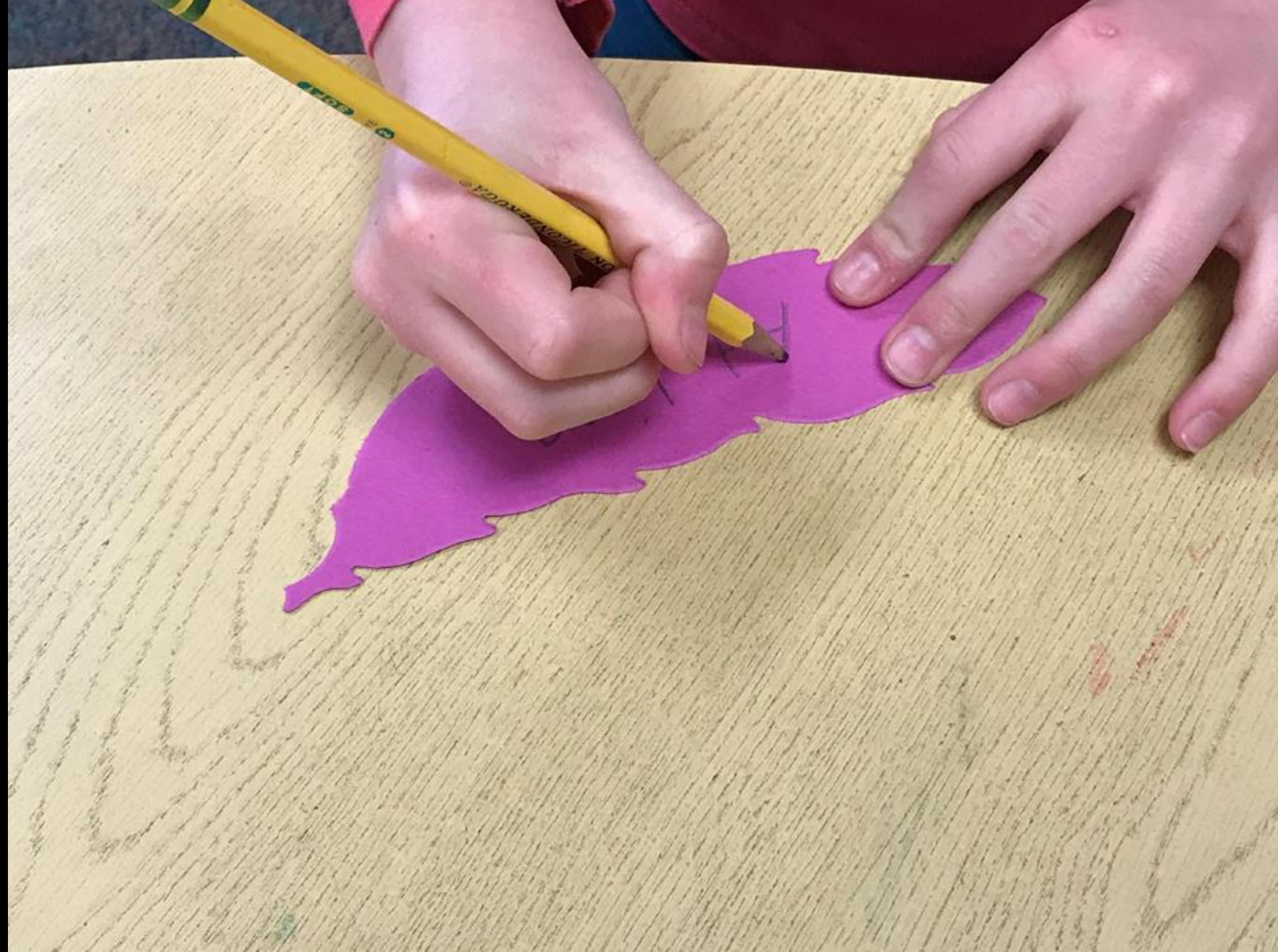


Quiz Number Sight words



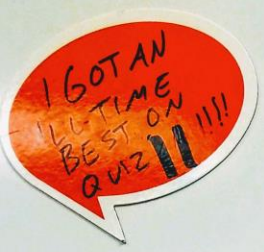
Student Run Chart





Individual
Celebration
of
Personal
Best (ATB)





Matthew

write name
thorough

Isaac

Diego

SK

Miss Claus
Avery

Morgan

Angelo



Jossie

MIDDLE
SCHOOL

Celebrate
With
Name
On
White
Board



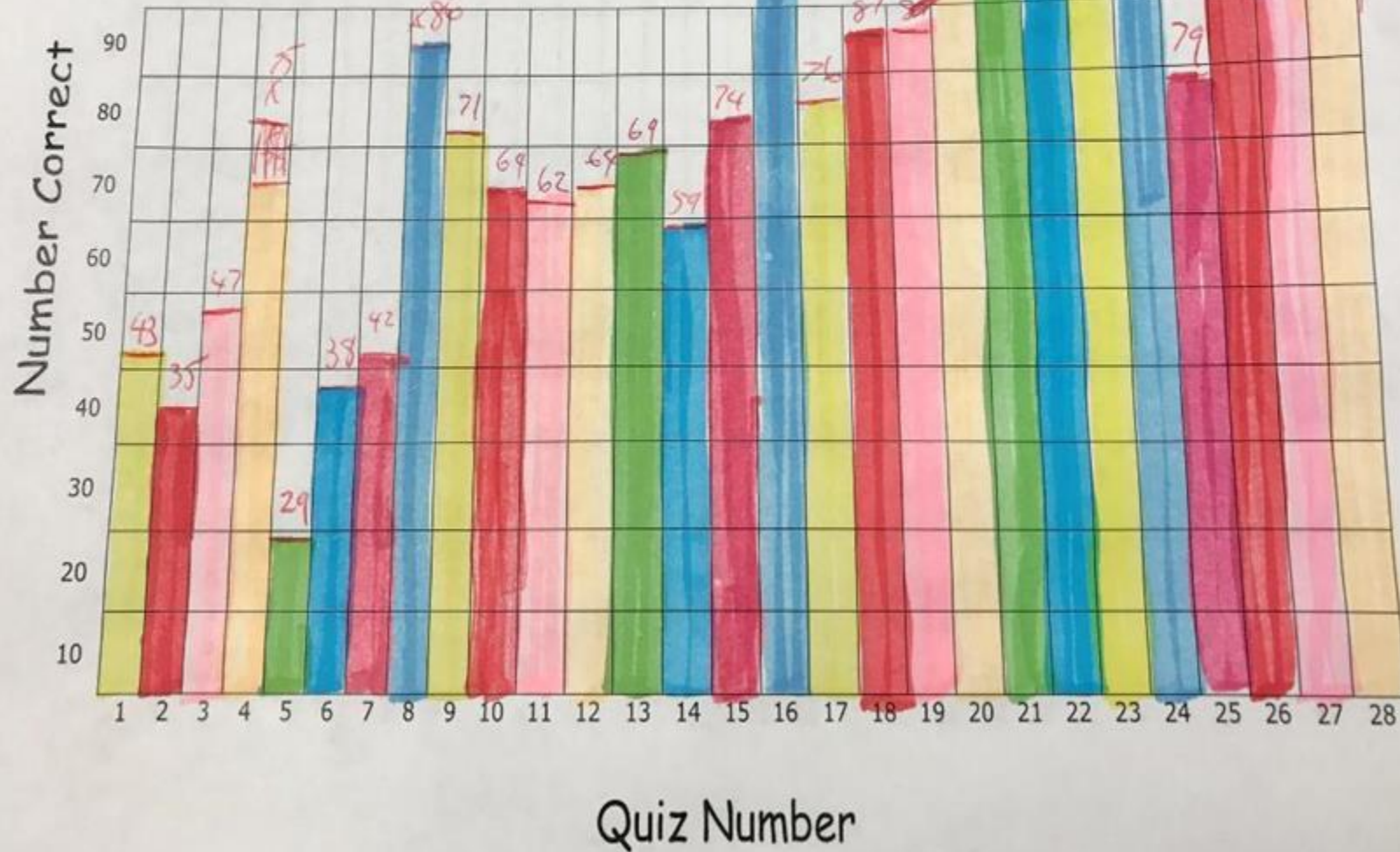
High School Kerplunk Celebration

Health Terms Class Run Chart

Name _____



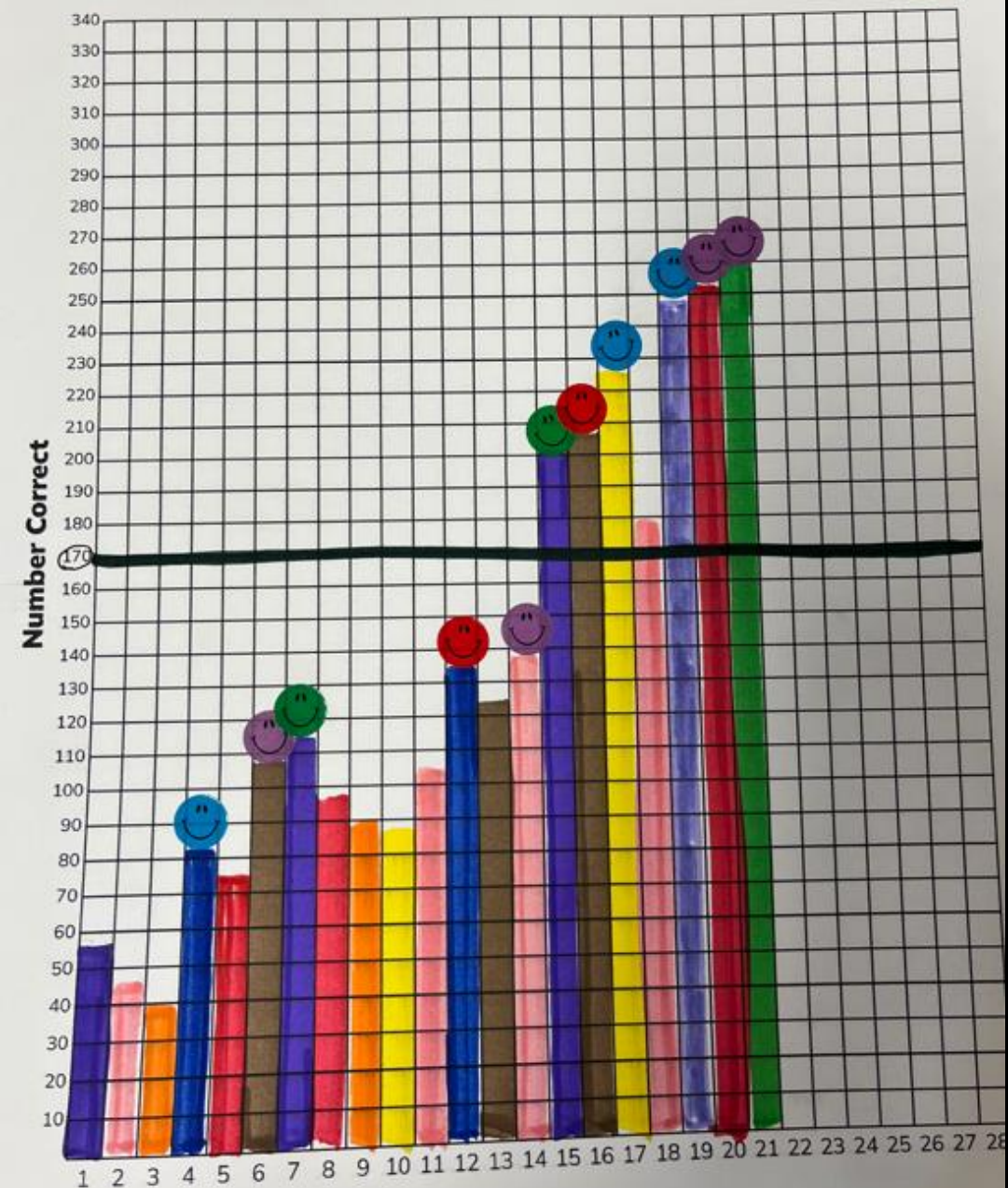
CENTURA
PUBLIC SCHOOL



Indicate
Classroom
All-Time
Bests

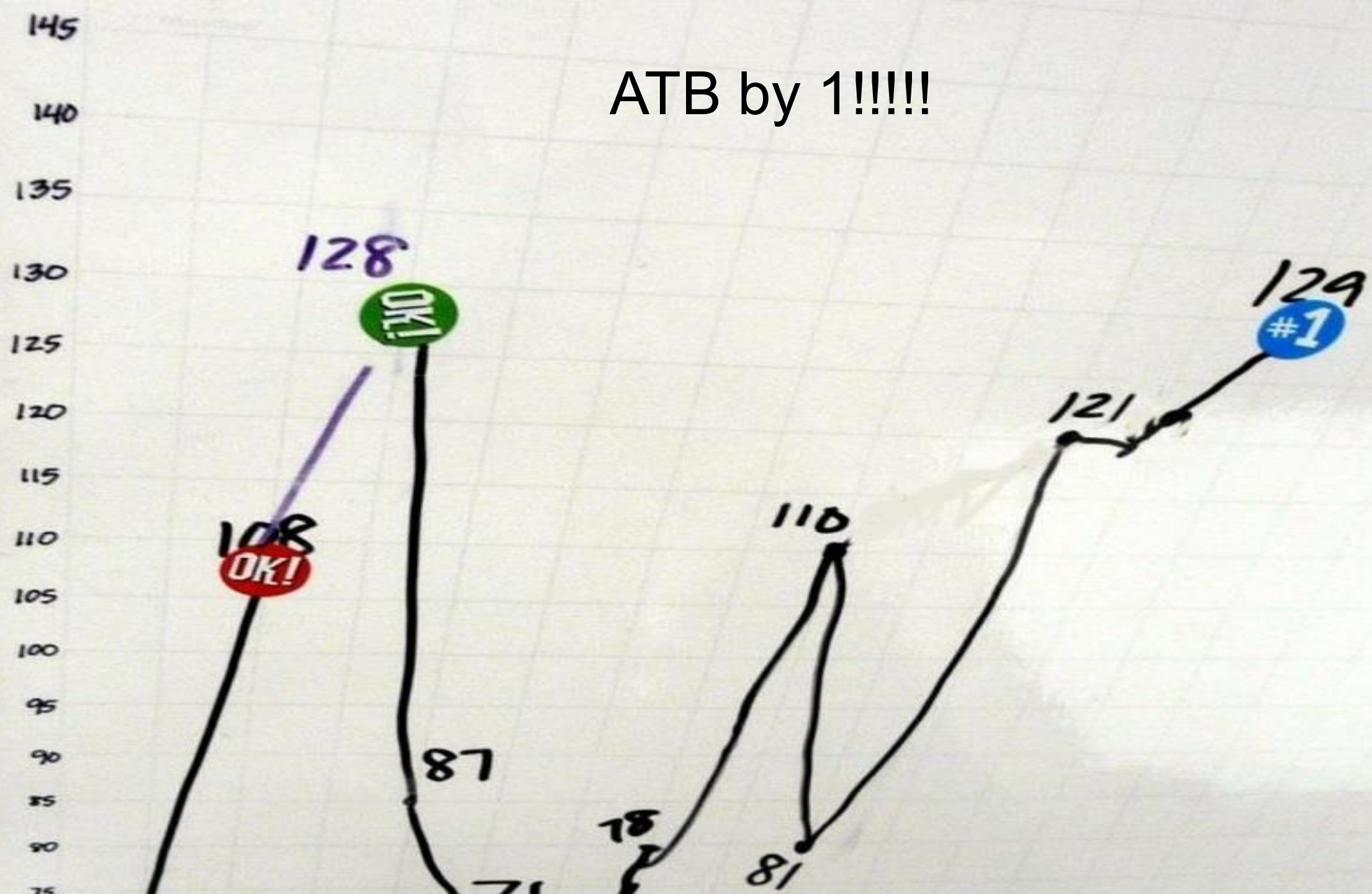


Class Run Chart



Earn Acceleration

ATB by 1!!!!!!



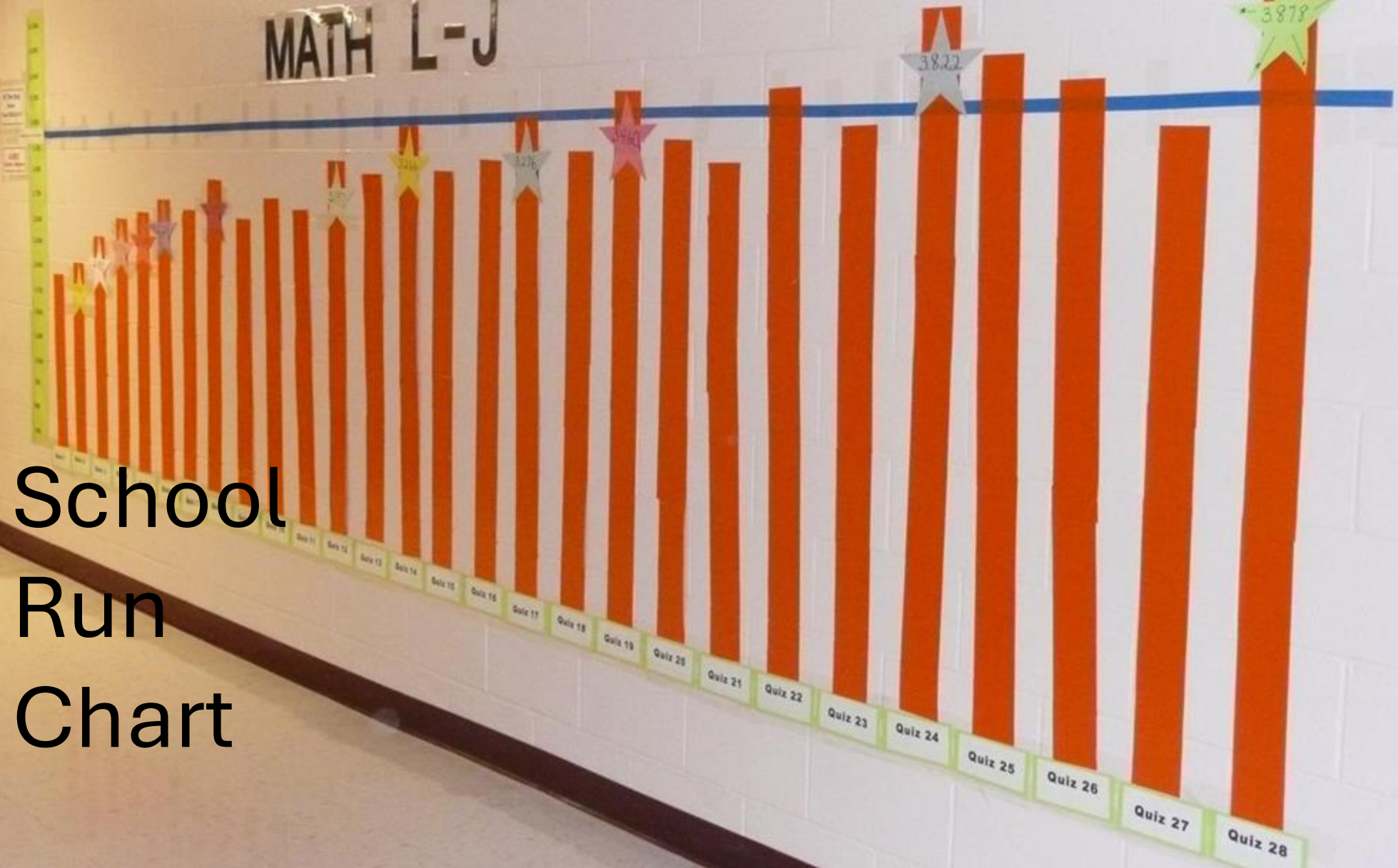
Sixteen Grade Seven Classrooms

Four
Subjects

Semester
Results



MATH L-J

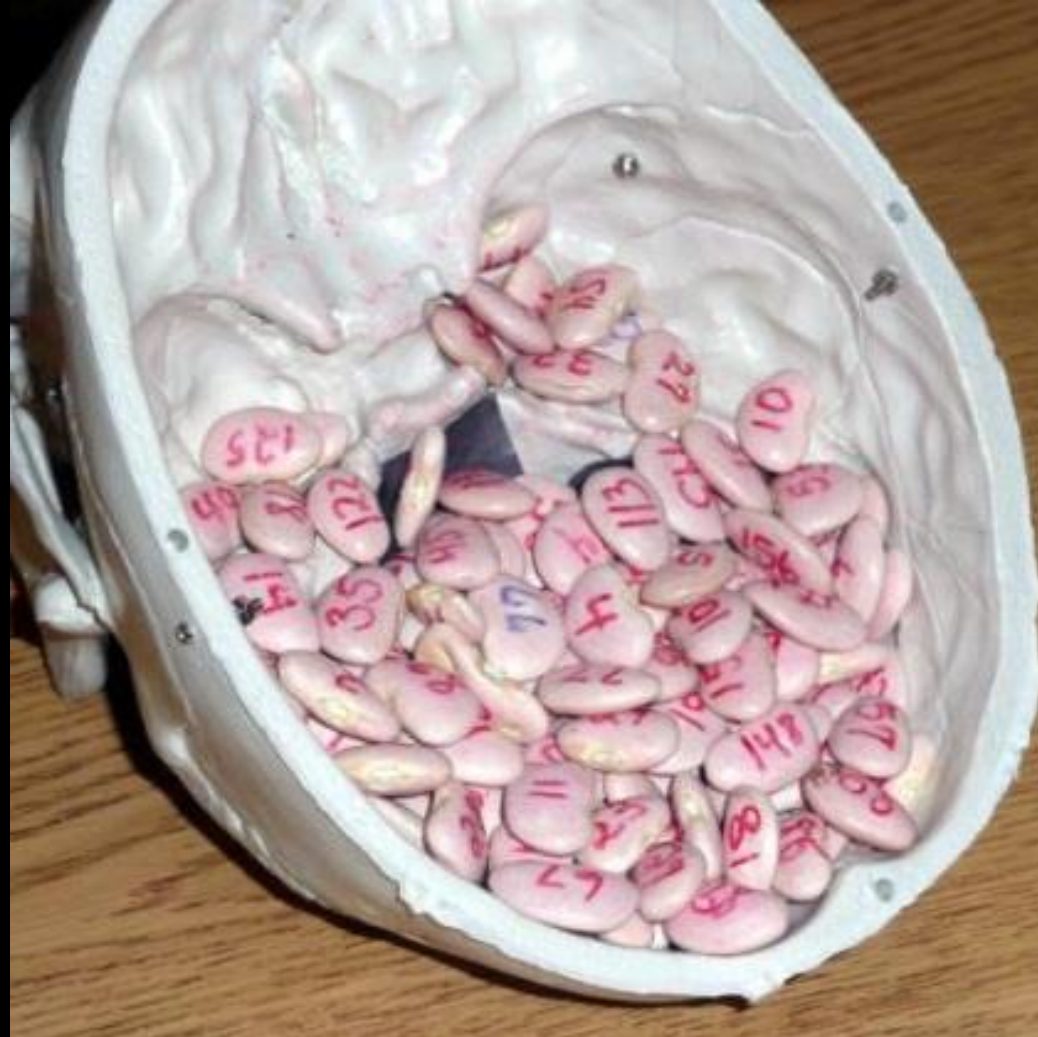


School
Run
Chart

Blue
Line?

Best
From
Prior
Years

Scatterbrain from Delaware

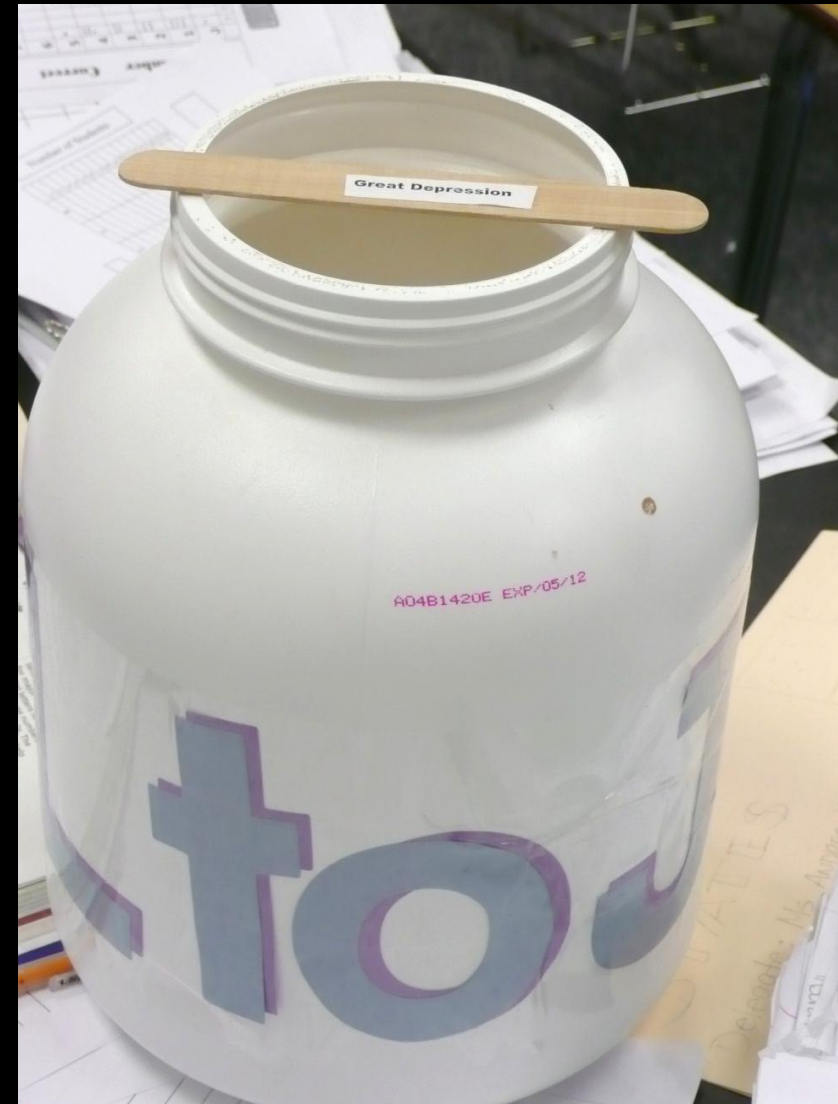
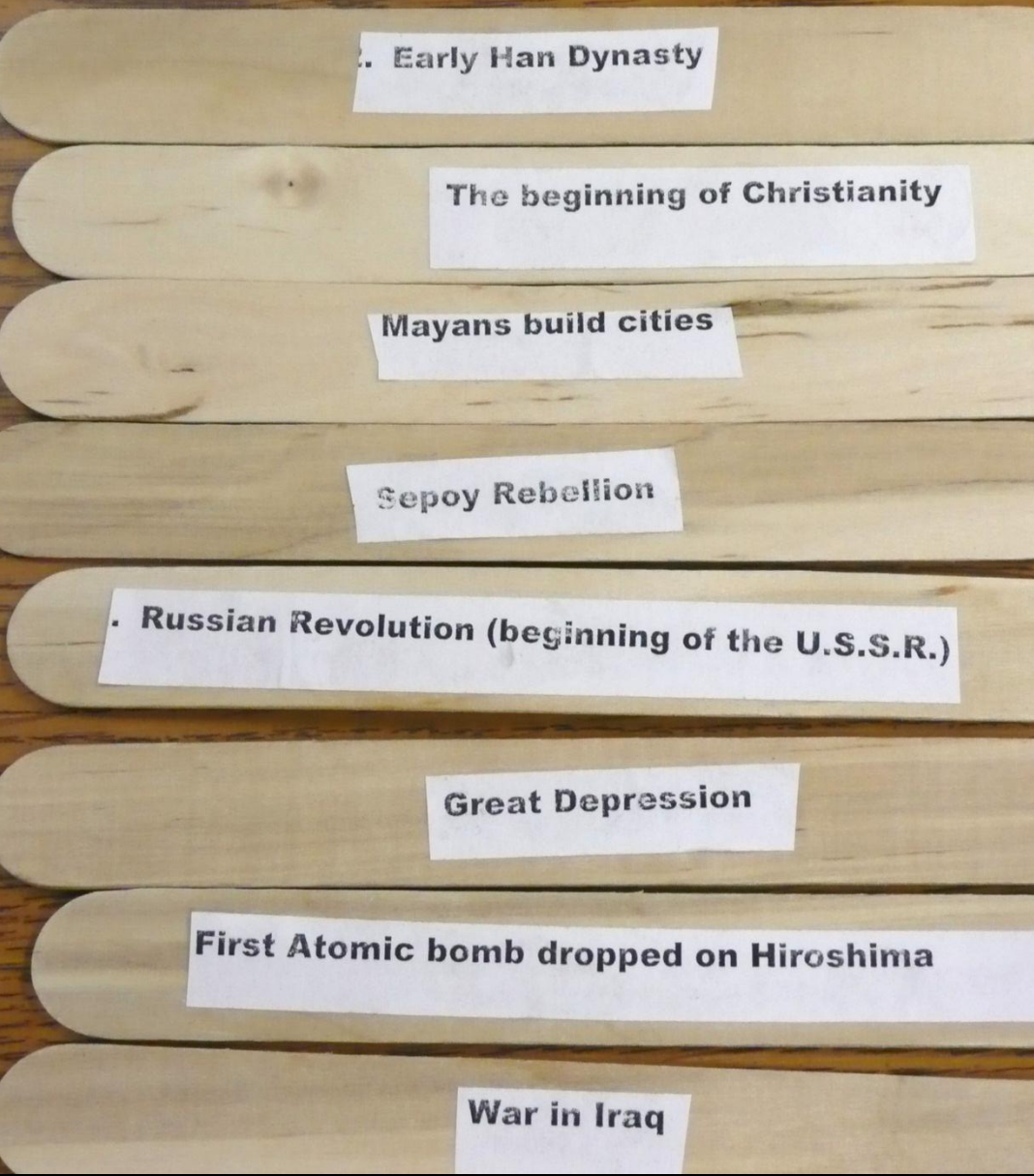




Middle School Random:

- Pickin' a nose for a key concept question.
- Is this fun or what?

World History, Tanque Verde, AZ



Concepts to Remember

H																	He
Li	Be											B	C	N	O	F	Ne
Na	Mg											Al	Si	P	S	Cl	Ar
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra	Ac	Rf	Ha	Sg	Ns	Hs	Mt	11	11	11	11					
									0	1	2	3					
		Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu		
		Th	Pa	U	Np	Pu	A	C	Bk	Cf	Es	Fm	Md	No	Lr		



The Wave Celebration

* Celebrations *

1. Cha Cha Slide
2. Tooty Ta
3. Photo Booth
4. Starting Line Up
5. Student Choice
6. Hamster Roll
7. 5th Grade Play Dances (2)
8. Follow The Leader
9. Free Time (10 min)
10. Spin Again

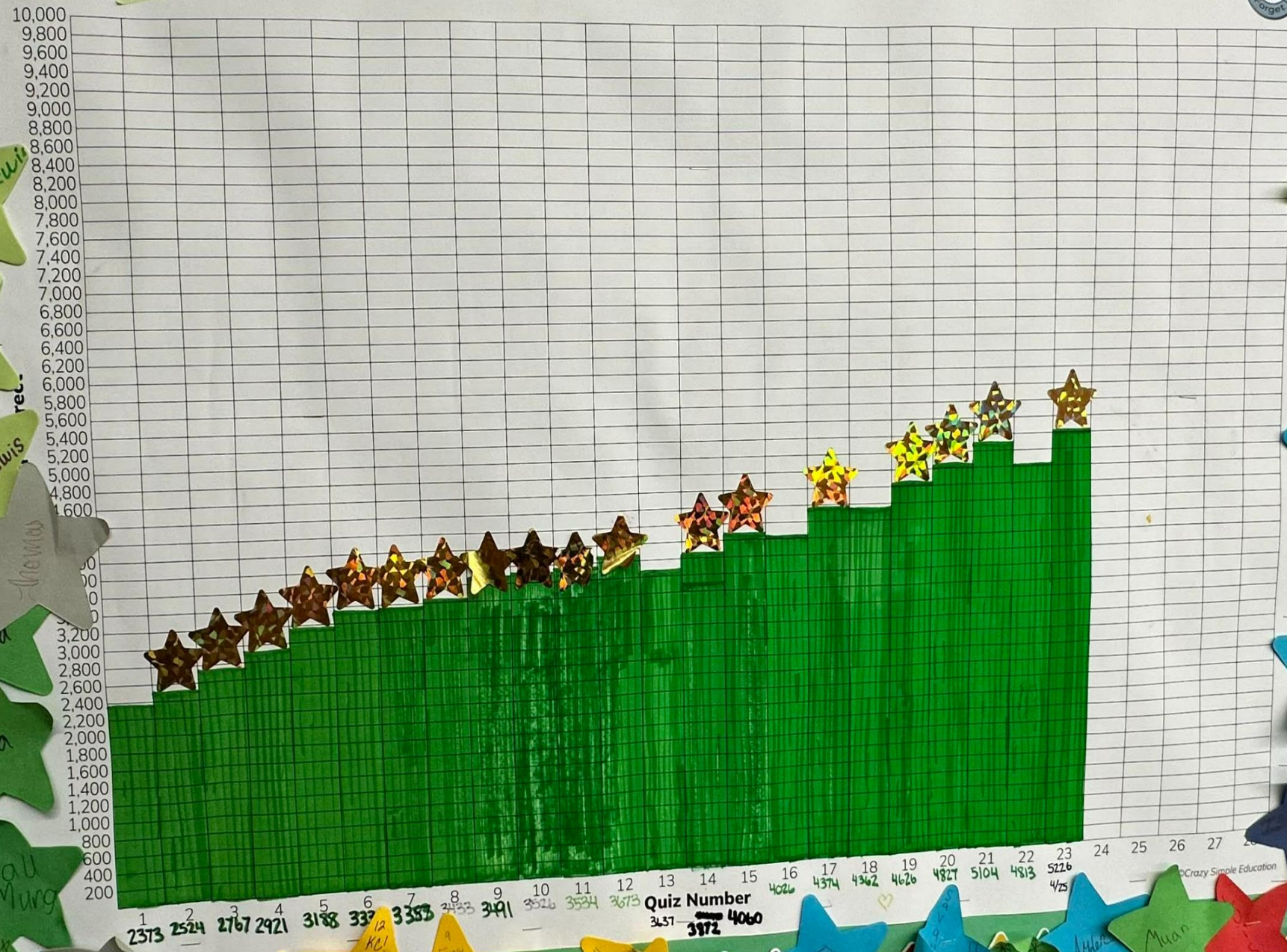


Spinner to
Determine
How to Celebrate

Hamster Roll
Is Favorite

School Run Chart - Math Fluency

Celebrate
School
Run
Chart

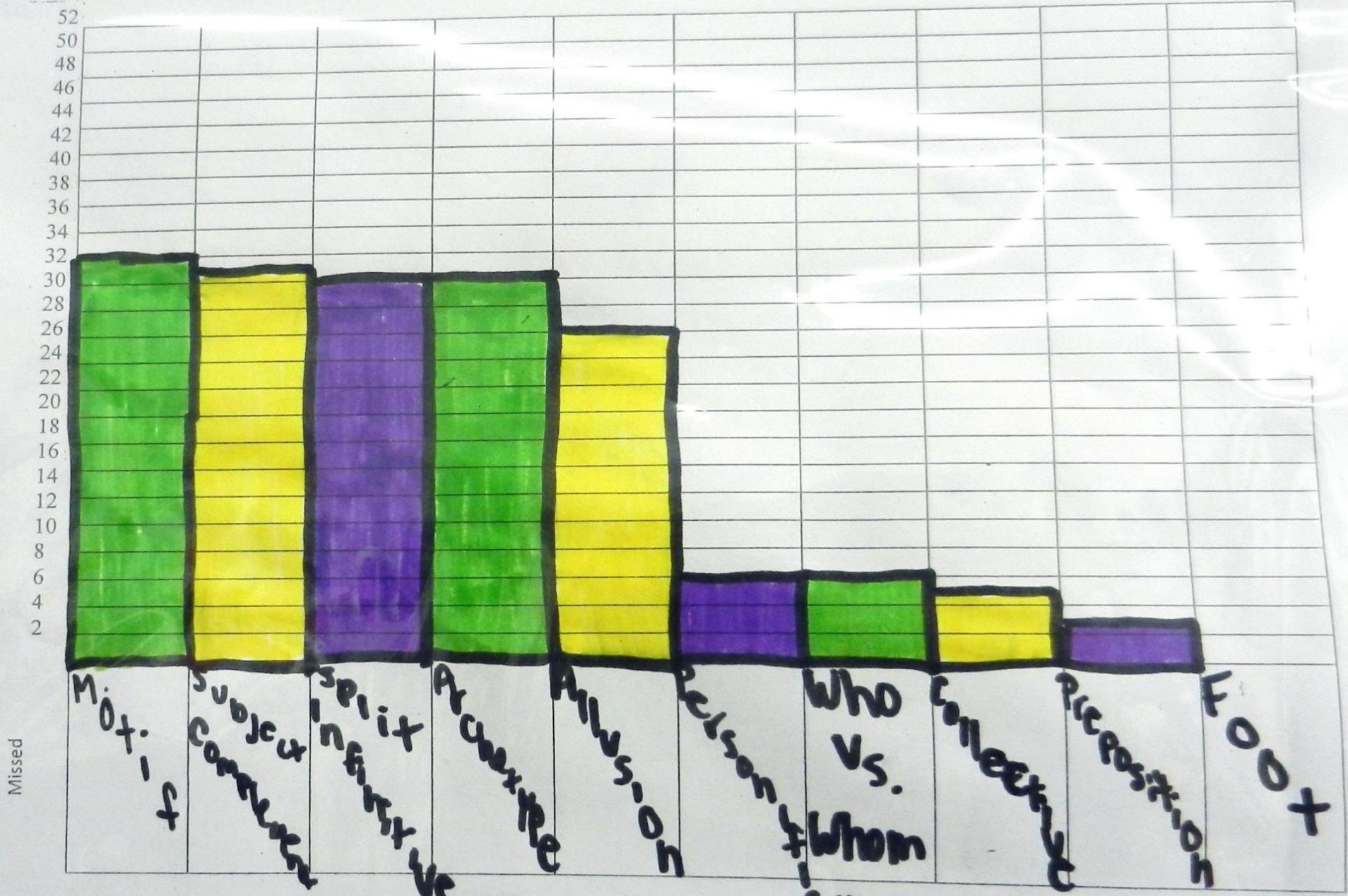


ERRORS FOR QUIZ # 11

EACH CLASS
PER QUIZ

Item Analysis

Number of Errors



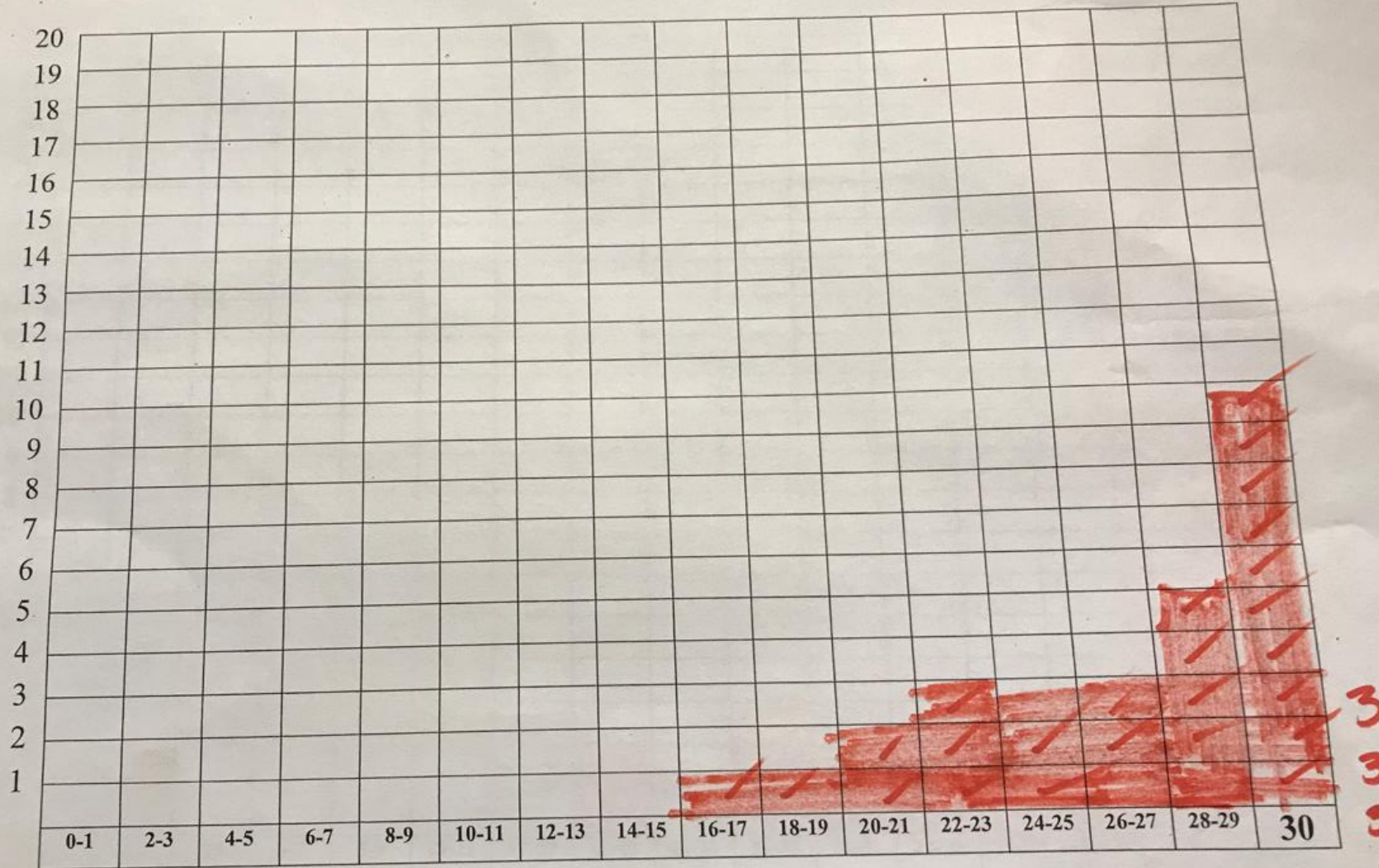
Most to Fewest

Missed

Errors in Rank Order

Histogram for Quiz # 17

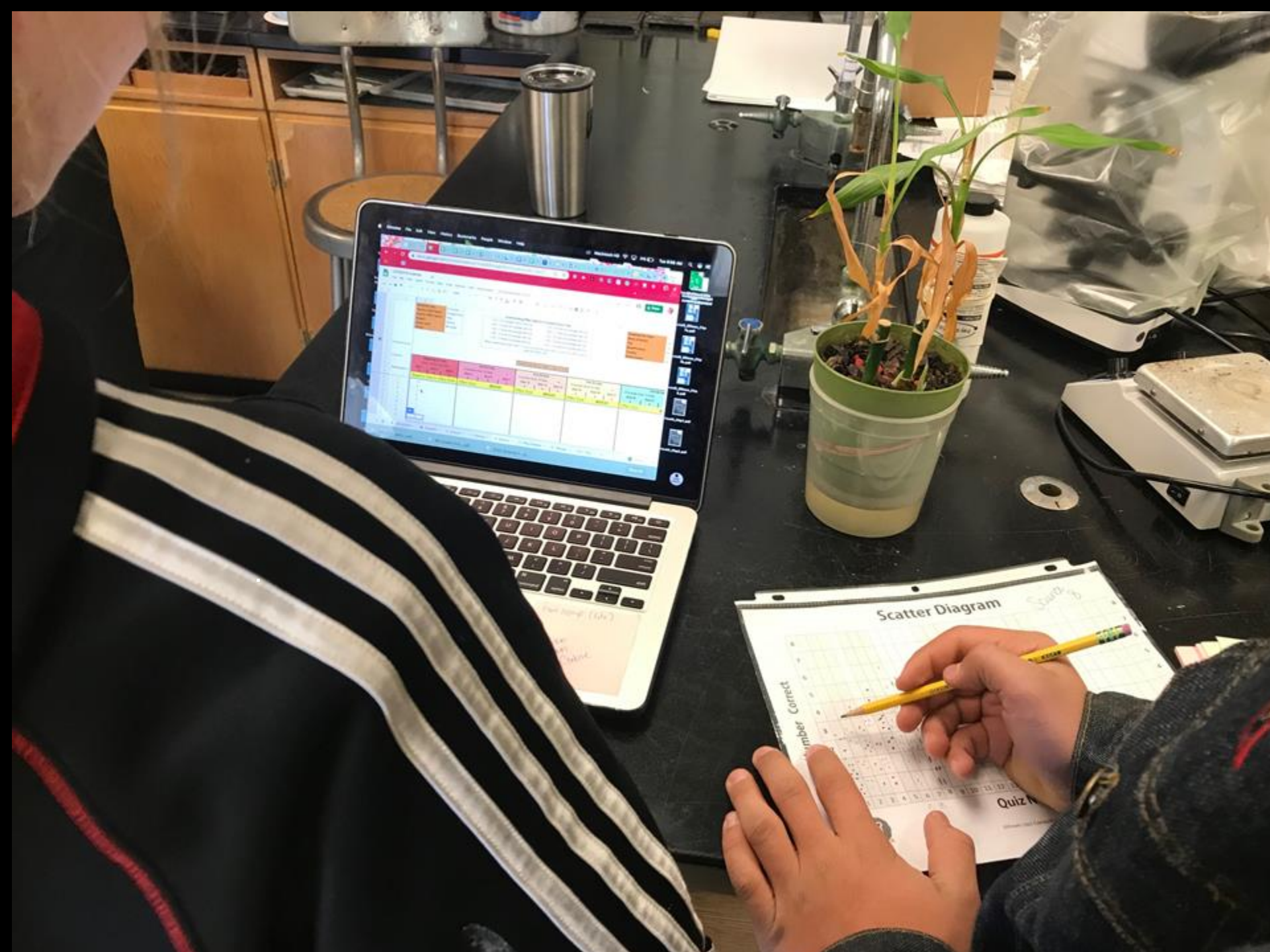
Number of Students



HISTOGRAM

“L” in beginning
 “Bell” in middle
 “J” at end of year





John Hattie

Effect Size

2.35 or
Six Times
Average
Influence

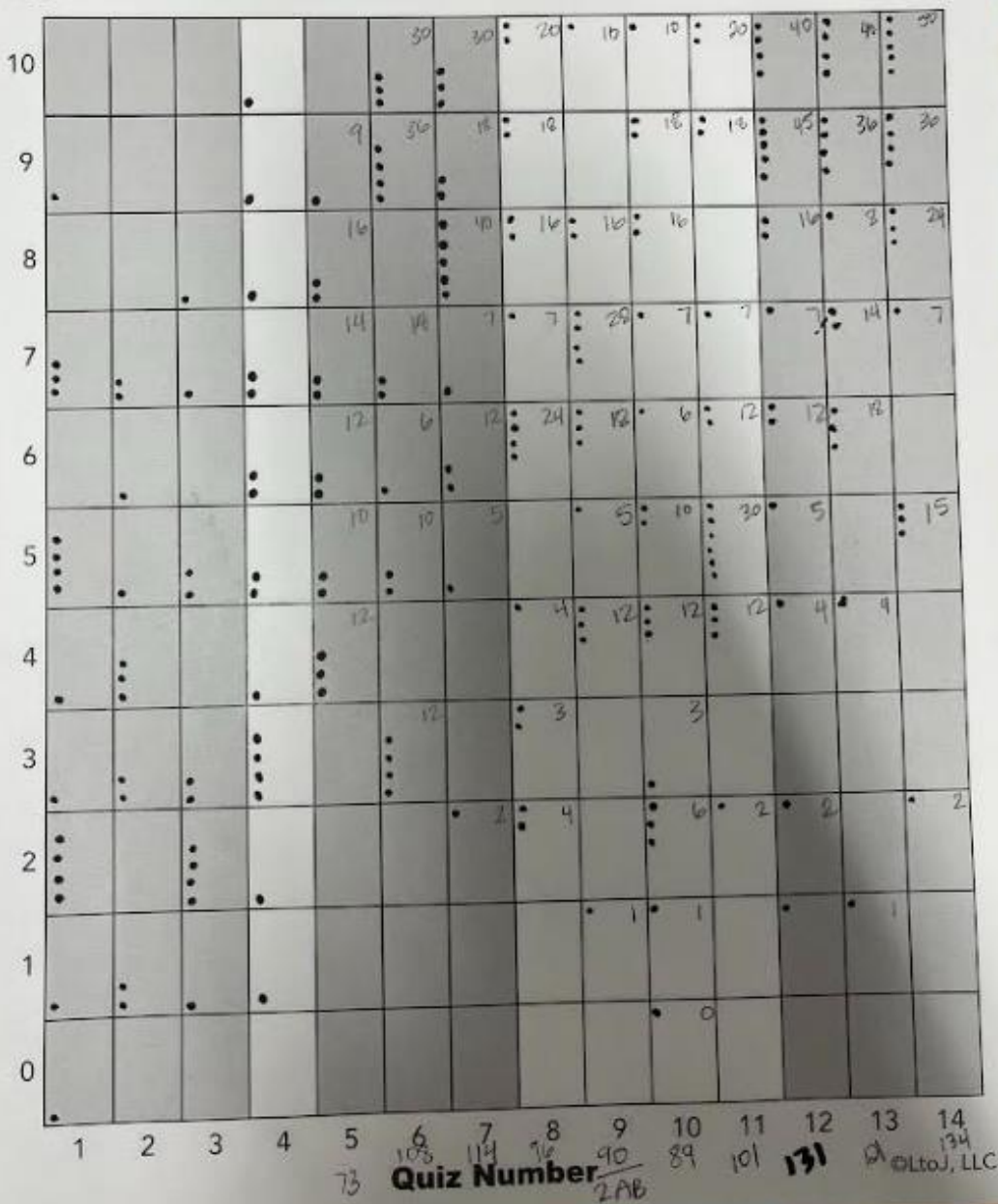


Scatter Diagram Math Fluency

Quiz 1 - 14

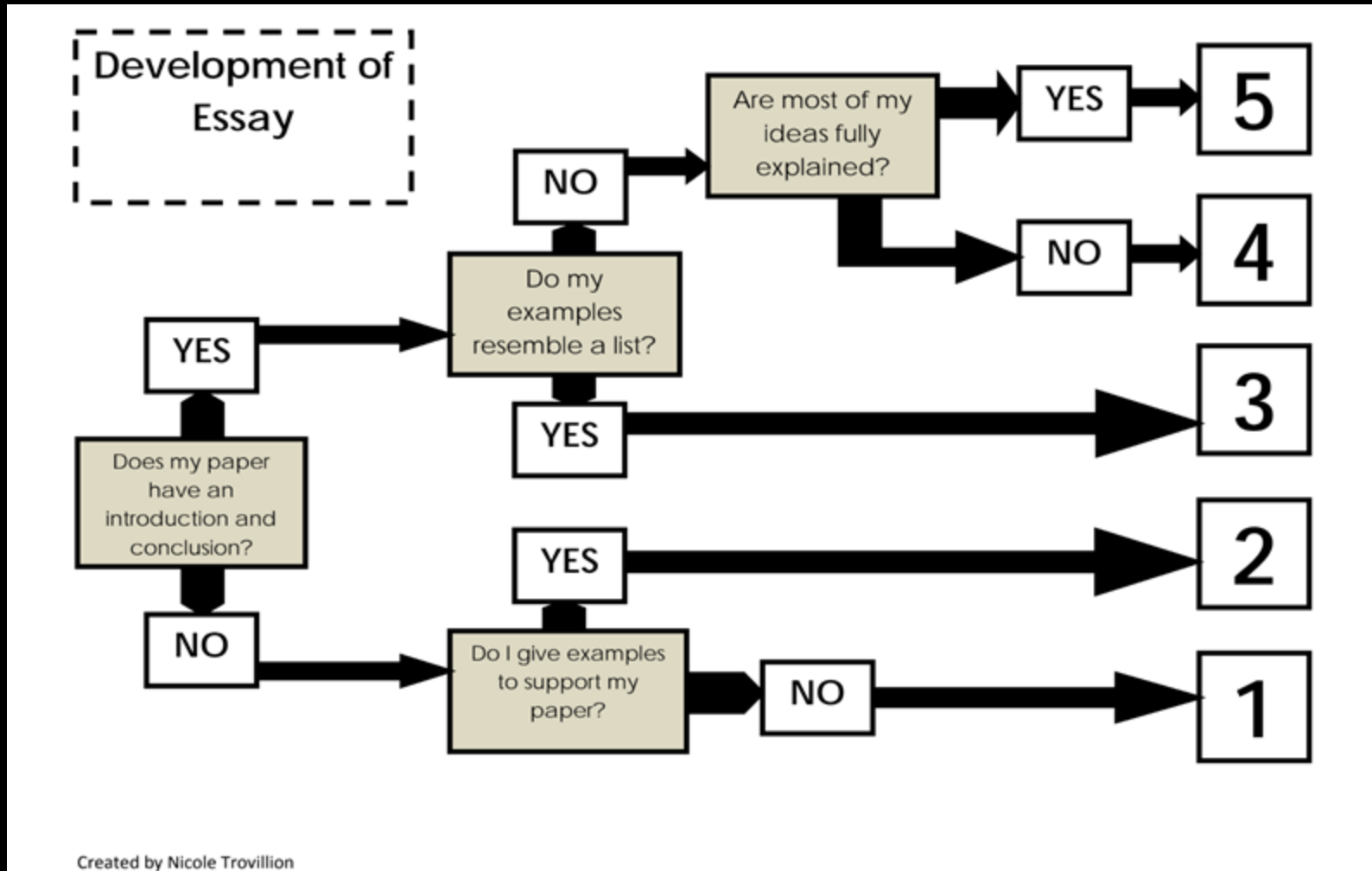


Number Correct



Create Scatter Diagram

Dichotomous Rubrics

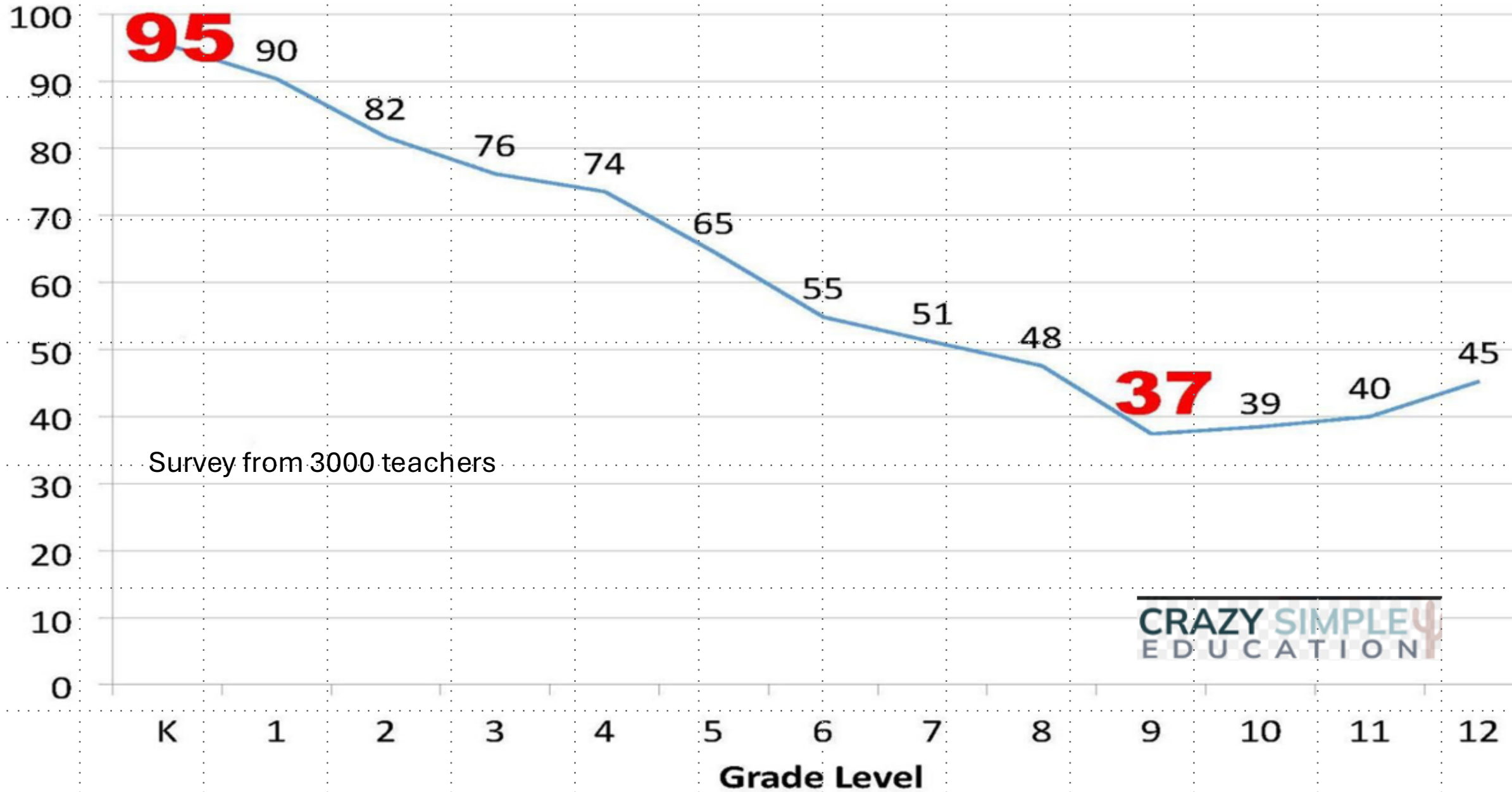


Accurate
Measurement
of Skill
Attainment

Favorite Part of School?



The Jenkins Curve



The Future in Podcast #3

Teaching Revolution

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