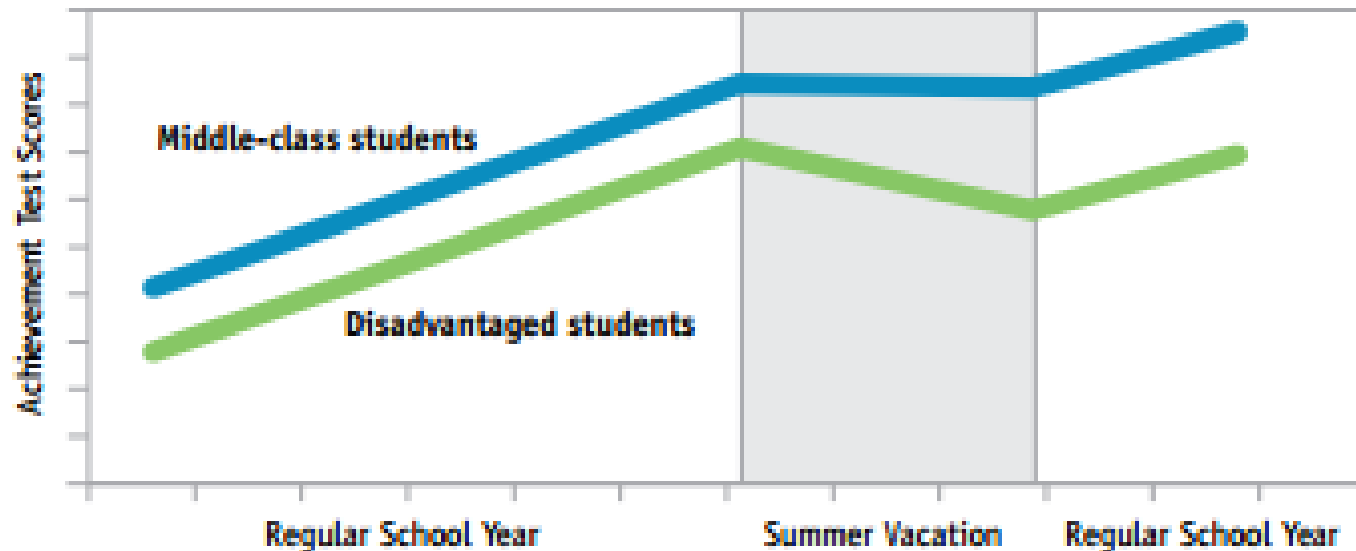


STEM Academy– Rethinking Summer School

Why have Summer
School at all?

The Summer Learning Gap

General Pattern of Reading Achievement for Students From Different Income Groups



Cooper et al, conducted a meta-analysis, which is a review and synthesis of multiple research studies. They reviewed 93 evaluations of summer school programs serving grades K through 12, and also reviewed qualitative data from the program evaluations, including interviews with teachers, parents, and administrators.

Note: The above is a generalized representation from all studies reviewed.

Summer School as a “Break”

“We need to dispense with romanticized notions associated with the traditional summer break, look at what’s really going on, and consider the consequences. Lots of kids get bored over summer. Poor children spend lots of time unsupervised and with limited resources for any constructive activity.”

–Harris Cooper, Professor and Chair
Duke Institute for Brain Sciences

STEM Academy Goals

- A STEM-focused curriculum that drives Mathematics and Reading instruction.
- Understand and Use the Engineering Process
- Understand and Use the Process of Scientific Investigation.

STEM Academy Goals

- Enrichment vs. Remediation
- Advancement vs. Parity

STEM Academy Overview

<http://wpstv.usd259.org/modules/groups/homepagefiles/gwp/1521178/1505280/Media/2013-2014Videos/SummerSTEMacademyVID1rev3.wmv?sessionid=7ac7bb35c628bb1c489cfa7c9dca5a35>

Robotics

Elementary School

http://wpstv.usd259.org/modules/groups/homepagefiles/gwp/1521178/1505280/Media/2014-2015%20Videos/SSA_EngineeringRobotics.wmv?sessionid=fedce702a0eaa580b0c7a2ef09f8ac5&sessionid=7ac7bb35c628bb1c489cfa7c9dca5a35

Crime Scene Investigation

Middle School

http://wpstv.usd259.org/modules/groups/homepagefiles/gwp/1521178/1505280/Media/2014-2015%20Videos/SSA_CSI.wmv?sessionid=fedce702a0eeaa58oboc7a2efogf8ac5&sessionid=7ac7bb35c628bb1c489cfa7c9dca5a35

STEM Academy Logistics

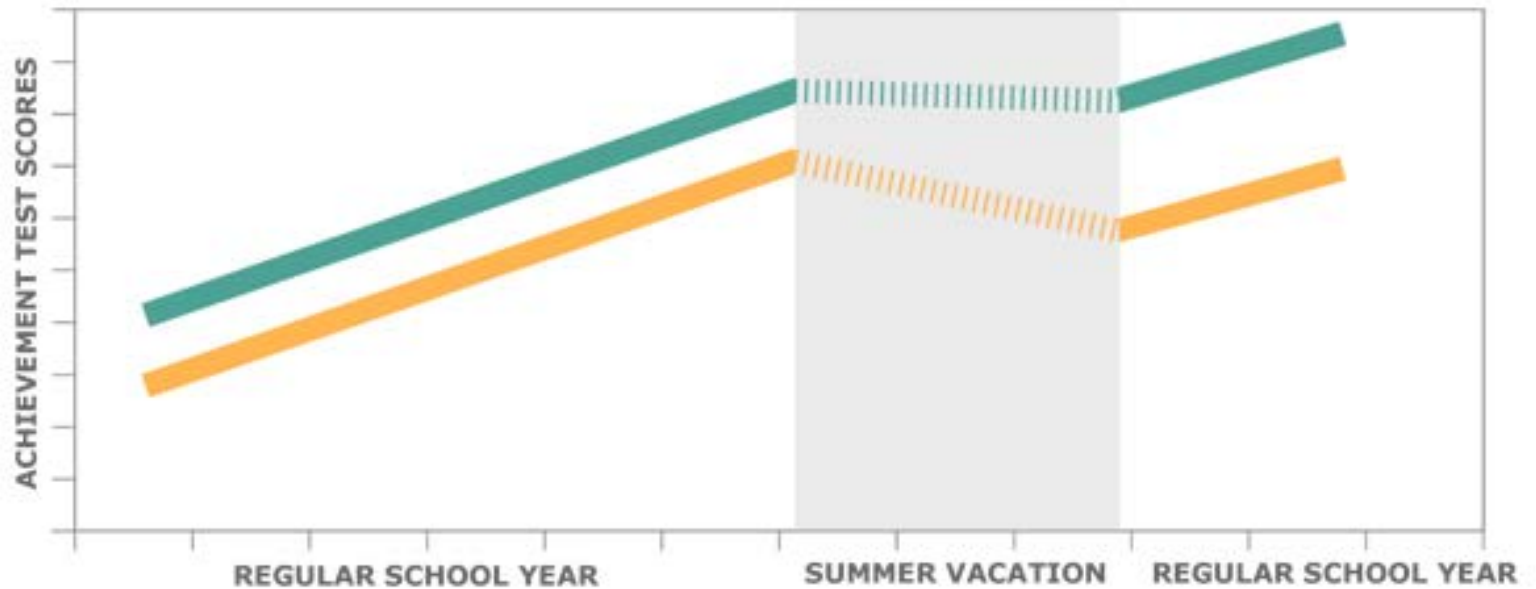
- Funding
- Staffing
- Facilities
- Nutrition
- Transportation

M-COMP Results

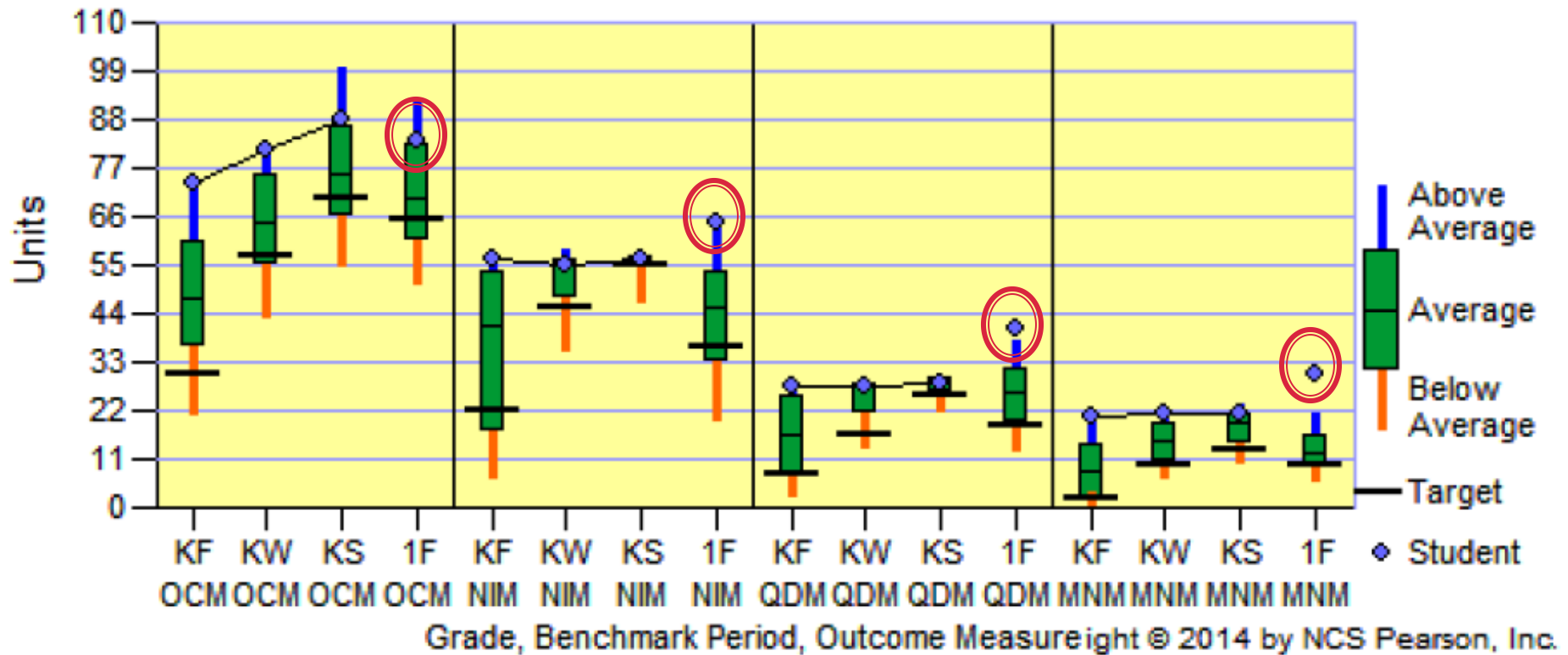
Grade	AIMSweb Assessment	Pre-test Score Average	Post-test Score Average	% Change
1	MCOMP	10	15	+50%
2	MCOMP	18	23	+28%
3	MCOMP	10	32	+220%
4	MCOMP	22	26	+4.5%
5	MCOMP	12	12	+0%

The Summer Learning Gap

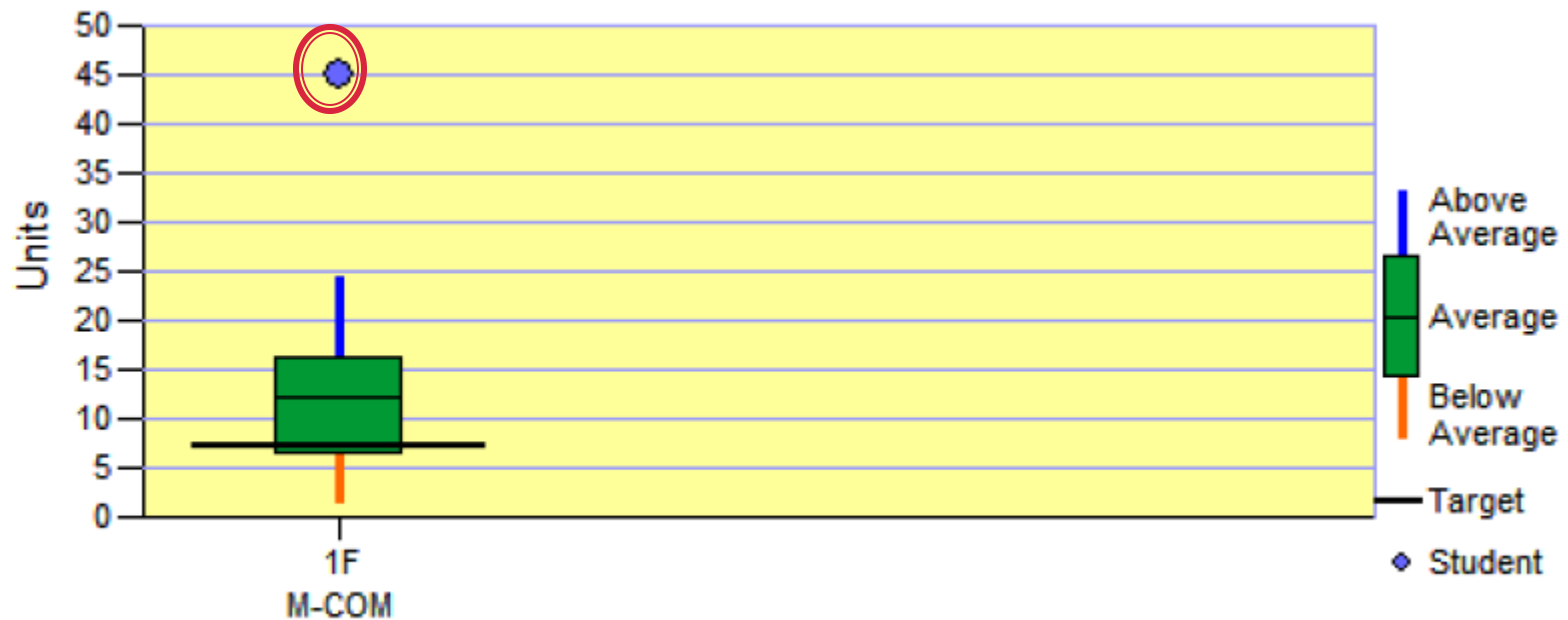
Summer Learning Loss Impacts Every Student and Teacher Every Year



Individual Detail- AIMSweb TEN



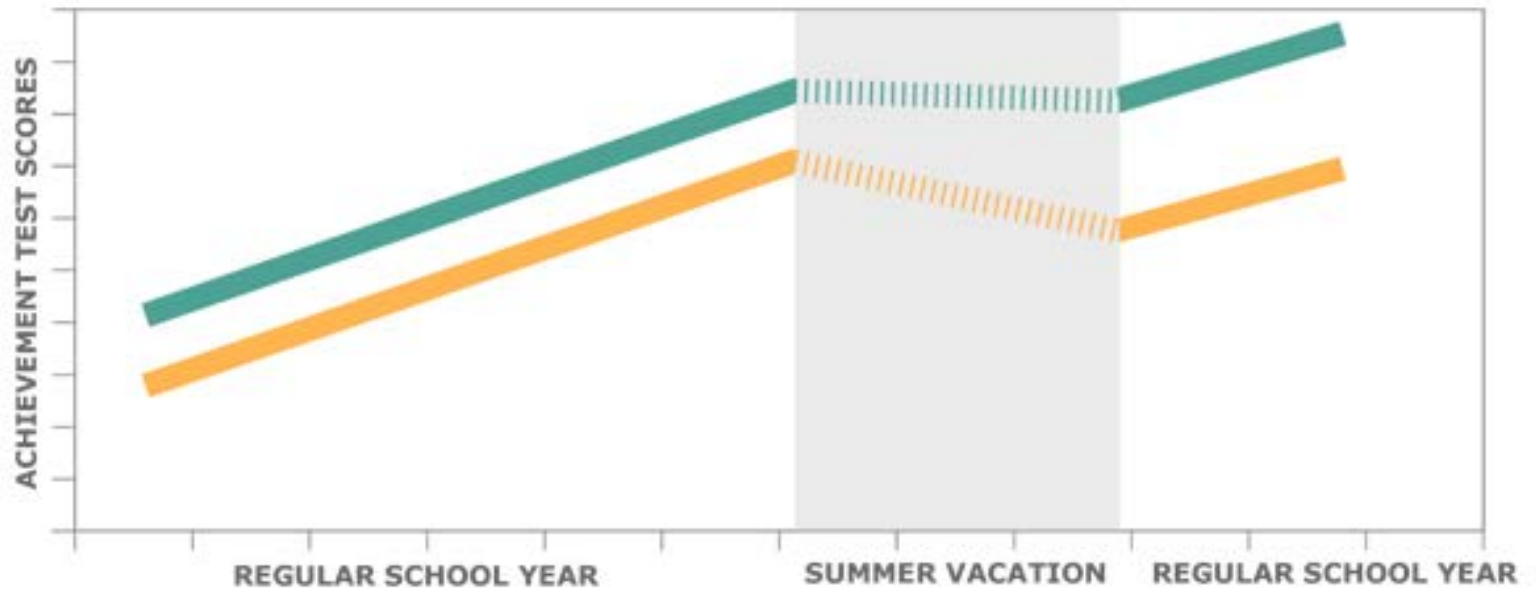
Individual Detail- AIMSweb M-COMP



Grade, Benchmark Period, Outcome Measure right © 2014 by NCS Pearson, Inc.

The Summer Learning Gap

Summer Learning Loss Impacts Every Student and Teacher Every Year



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