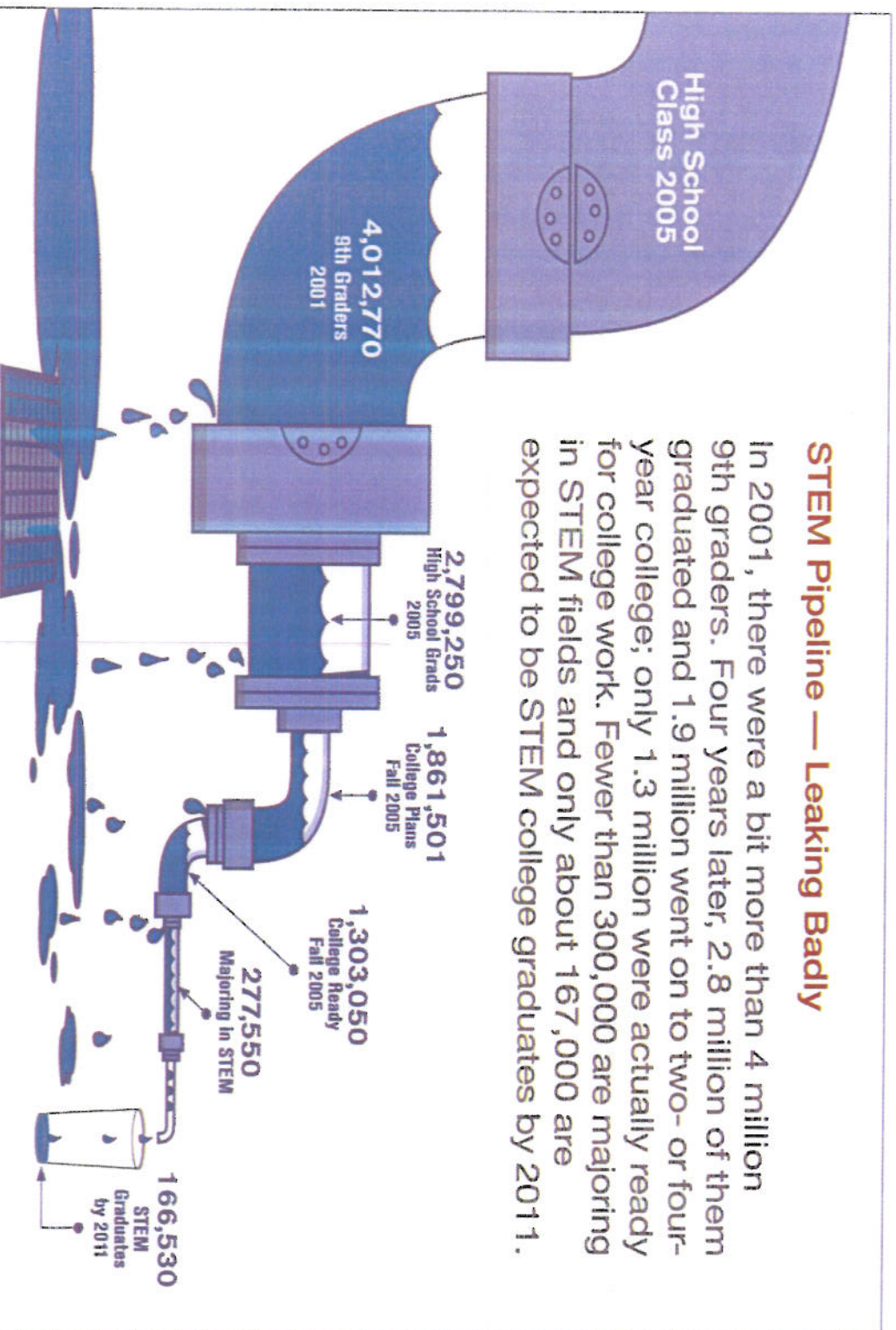


# The Problem: A Leaky STEM Pipeline

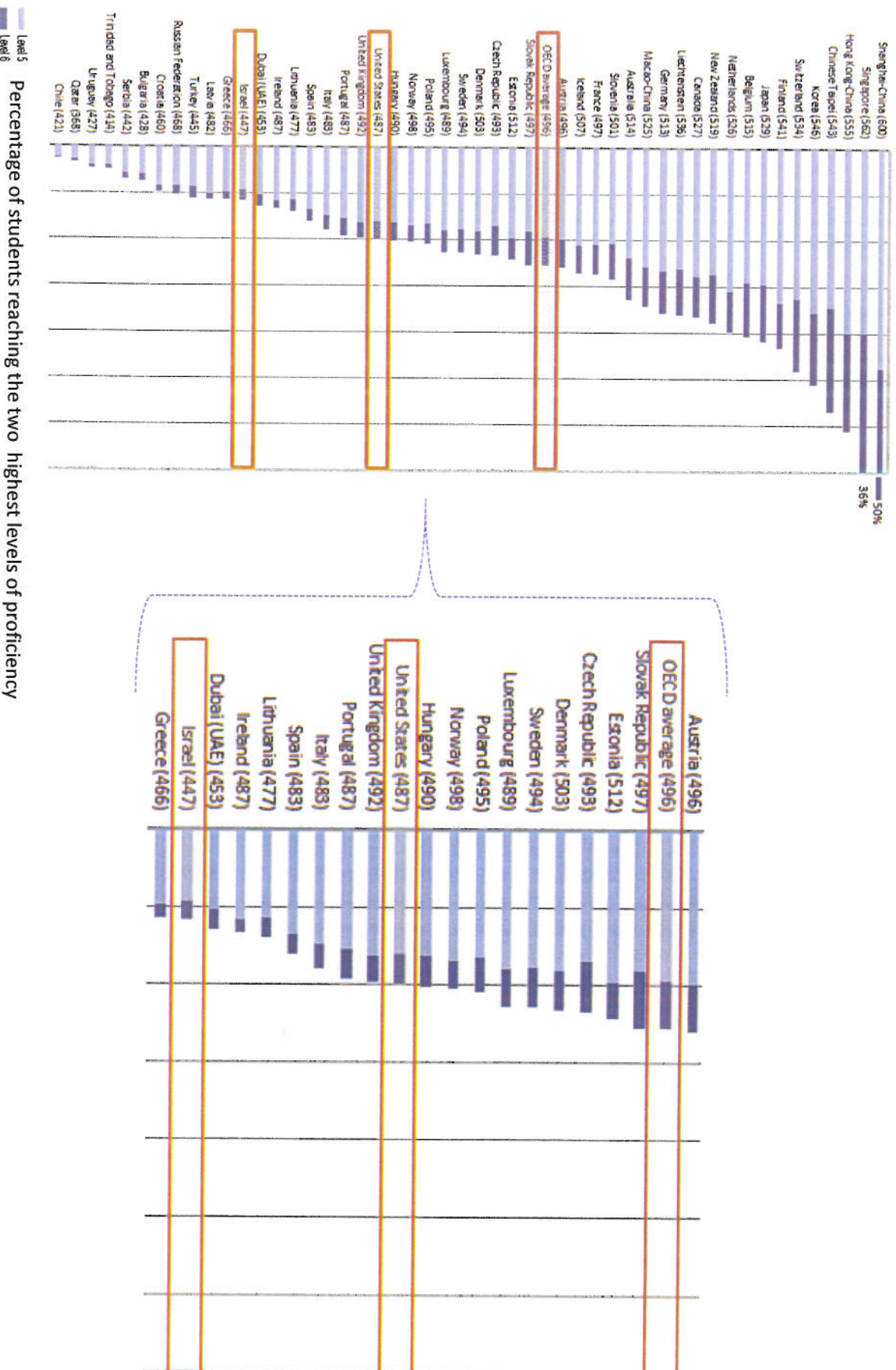
## STEM Pipeline — Leaking Badly

In 2001, there were a bit more than 4 million 9th graders. Four years later, 2.8 million of them graduated and 1.9 million went on to two- or four-year college; only 1.3 million were actually ready for college work. Fewer than 300,000 are majoring in STEM fields and only about 167,000 are expected to be STEM college graduates by 2011.



Source: NCES Digest of Education Statistics; Science & Engineering Indicators 2008

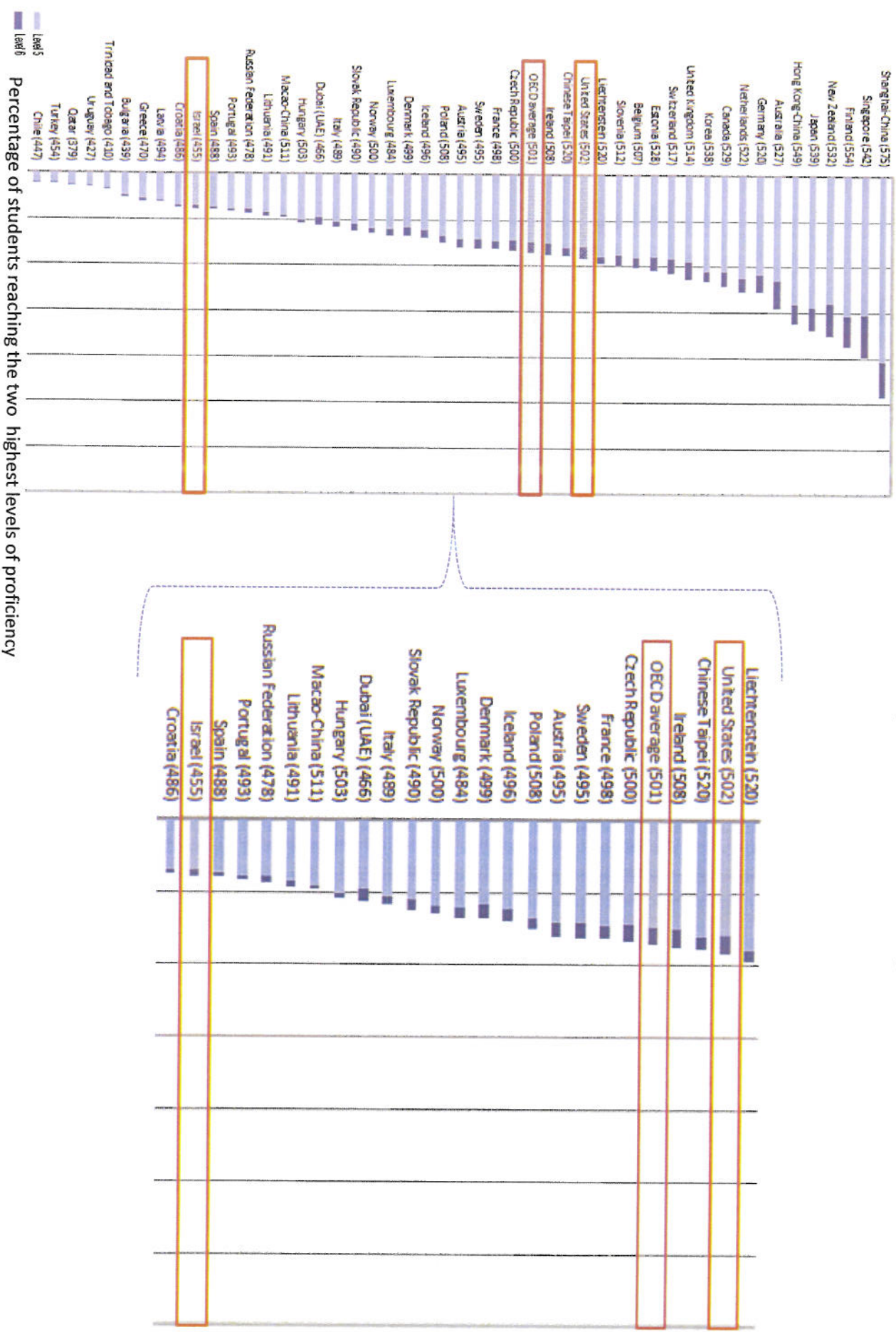
# PISA Math Scores by Countries, 2009



SOURCE: PISA 2009 Results: What Students Know and Can Do Student Performance in Reading, Mathematics and Science, Volume 1



# PISA Science Scores by Countries, 2009



SOURCE: PISA 2009 Results: What Students Know and Can Do Student Performance in Reading, Mathematics and Science, Volume 1

# What are STEM Capabilities?



Source: Anthony P. Carnevale, Nicole Smith, and Michelle Melton, October 2011. *STEM Science, Technology Engineering, Mathematics – Executive Summary*. Report issued by the Georgetown University Center on Education and the Workforce. <http://www9.georgetown.edu/grad/iep/npj/cewf/pdfs/stem-execsun.pdf>