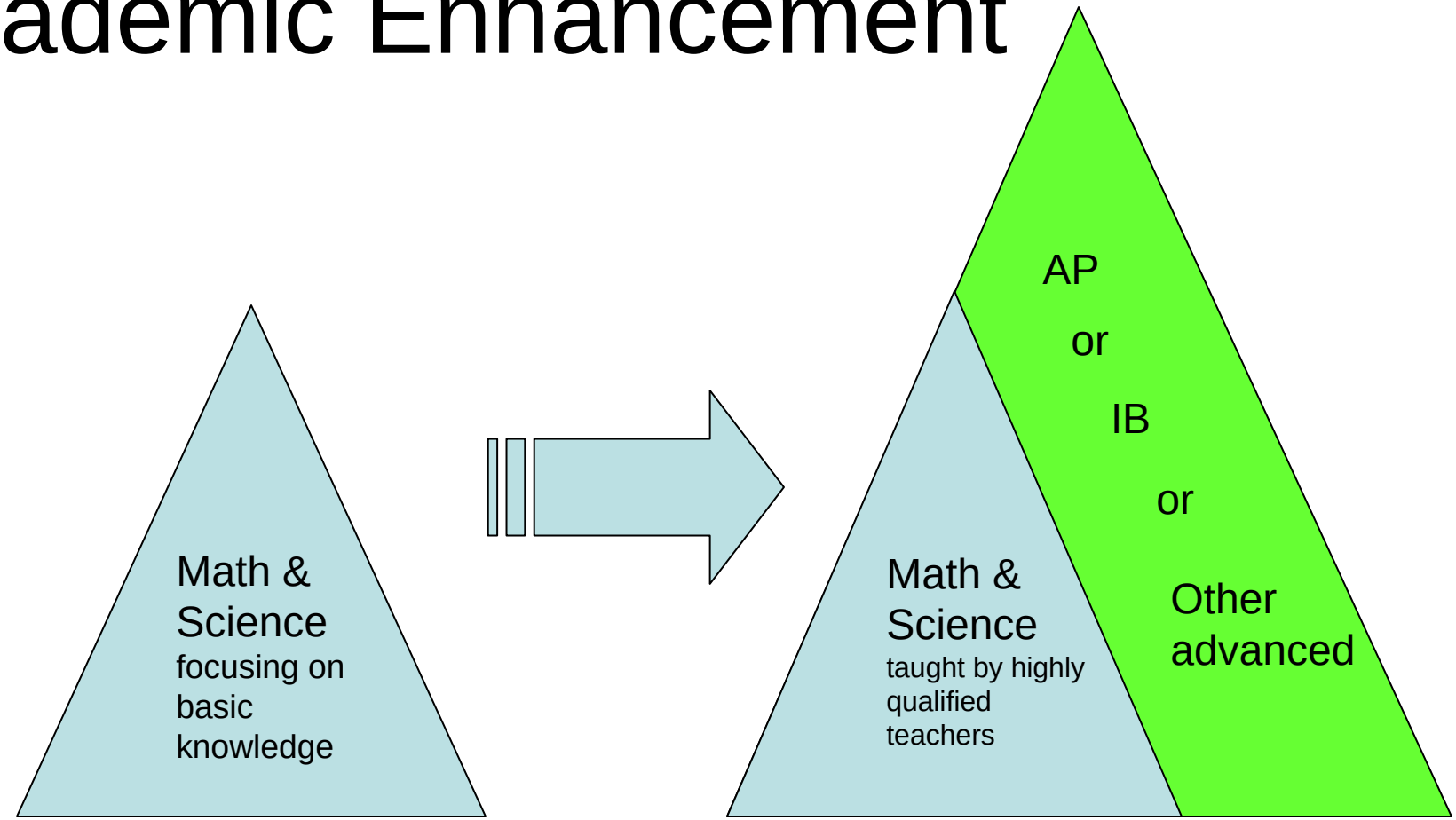
Which paradigm for improving K12 Curricula?

- Academic enhancement
- Technical enhancement
- Redesign

Academic Enhancement

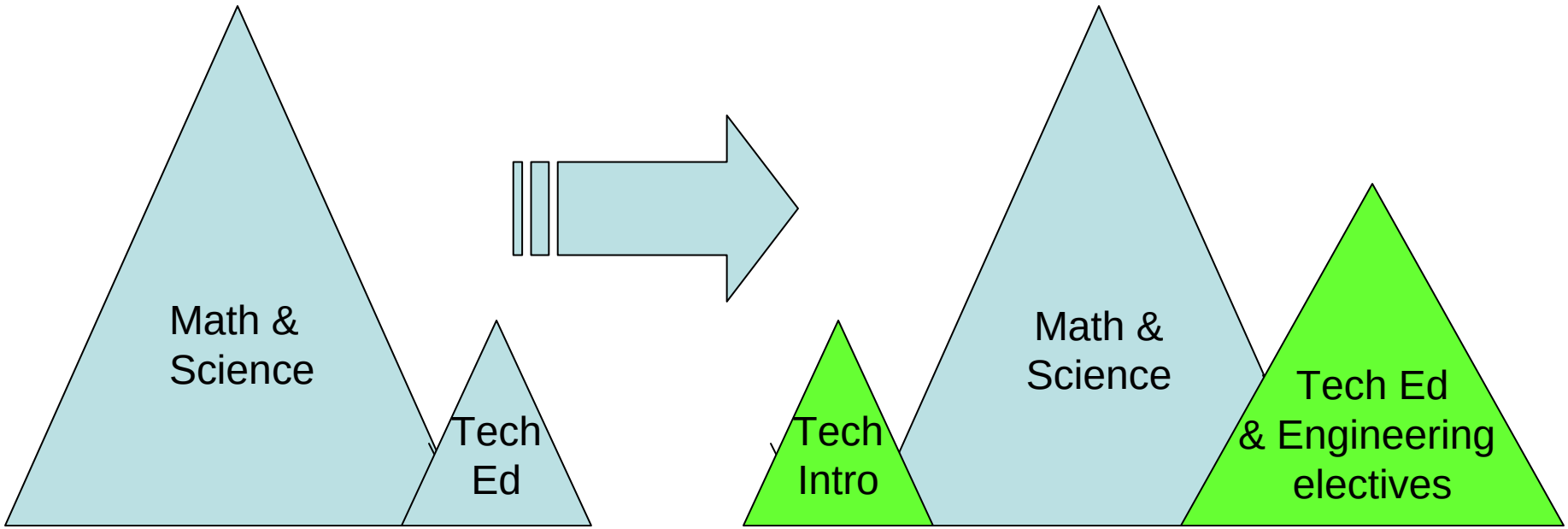


As currently taught at many schools

Current best practice spread to all schools. Add engineering examples to add context & relevance.

Improve the quality of science and math teaching, the availability of advanced science/math courses, and convince more students to take these advanced courses so they're ready for engineering/applied science when they get to college.

Technical Enhancement



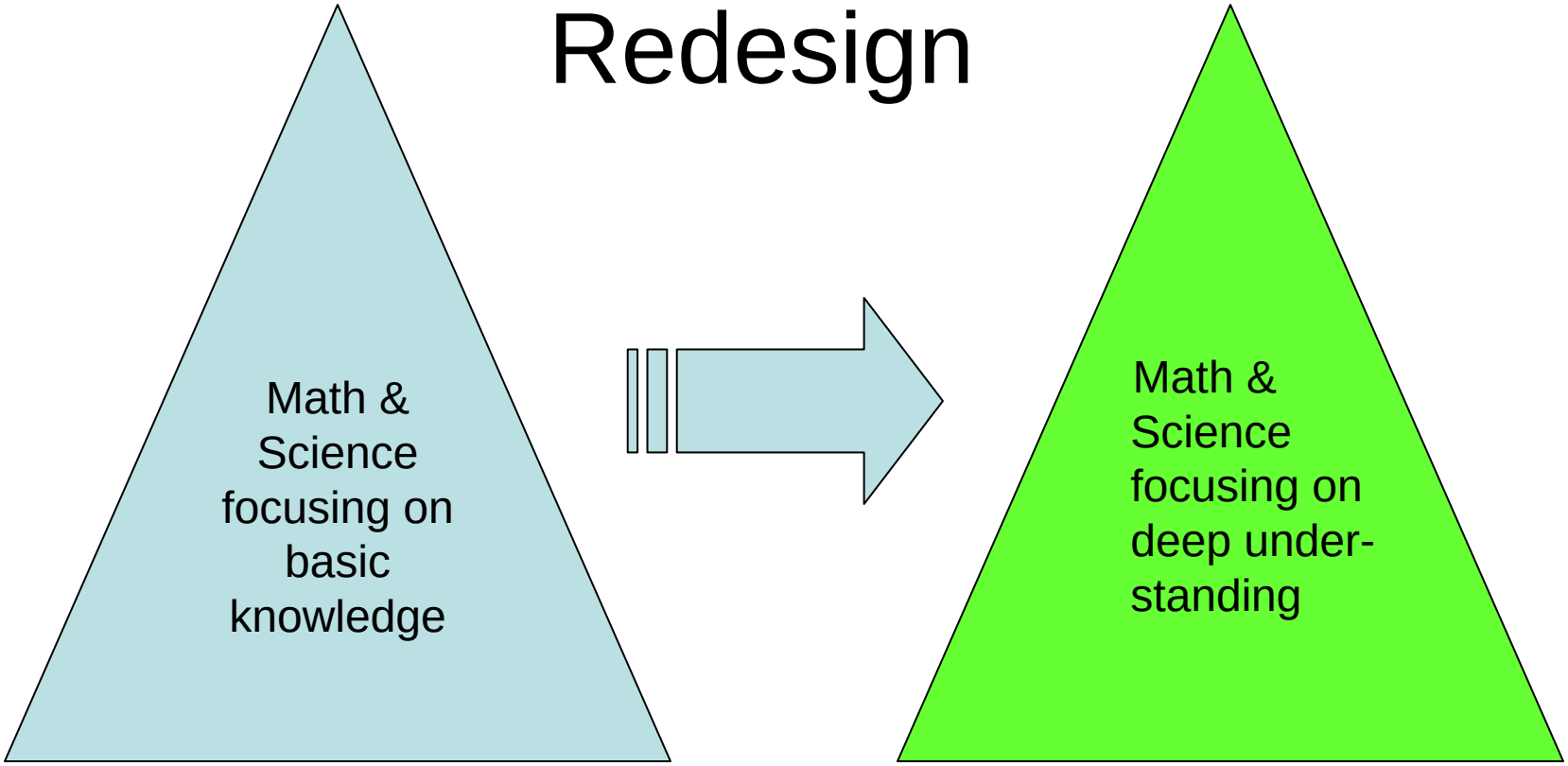
Limited availability of technology & pre-engineering

Diverse set of technology & pre-engineering courses in all schools

Sub-alternatives:

- Add technology/engineering exposure to middle school
- Increase the availability and quality of engineering/technology electives at the high school level
- Make one or more such courses required for graduation.

Redesign



As currently taught in many schools

Taught with integrating concepts: Science Inquiry & Engineering Problem Solving

Redesign science and math curricula so they include exposure to engineering and technology to give students insight into possible careers and include engineering problem solving both to increase the understanding of the science and math and to prepare them for further study in engineering should they choose to pursue it.