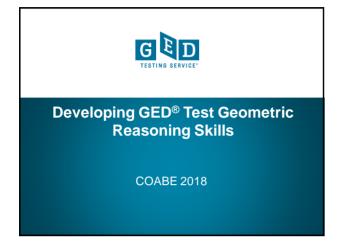
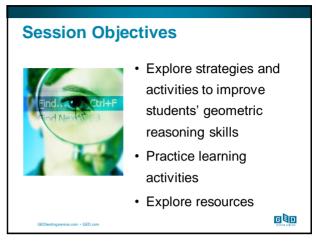
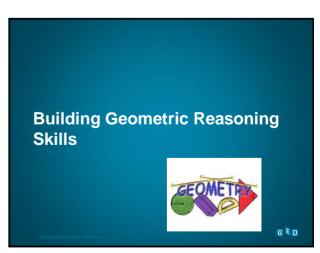
Geometry Reasoning Skills









Geometry Reasoning Skills

Assessment Targets—Q.4/Q.5

- Q.4 Calculate dimensions, perimeter, circumference, and area of twodimensional figures
- Q.5 Calculate dimensions, surface area, and volume of threedimensional figures

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What to look for in student work (Q.4/5)

The student can

- identify the dimensions of a geometric figure from a diagram, then substitute the values for those dimensions into the appropriate formula for geometric measurement, then calculate the resulting numerical expression.
- · calculate the perimeter of polygons.
- · identify the shapes that comprise a composite figure.

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Van Hiele Theory

- · Level 1: Visualization
- · Level 2: Analyze
- · Level 3: Informal Deduction
- · Level 4: Formal Deduction
- · Level 5: Rigor

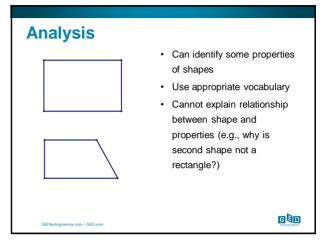
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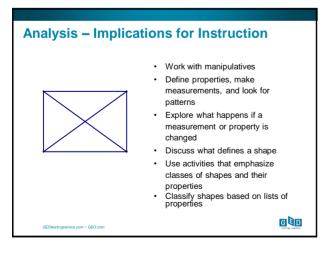


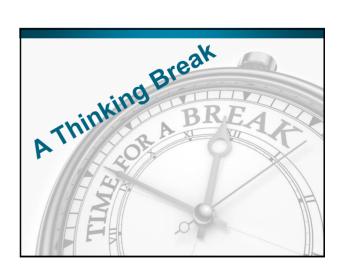
Recognize and name shapes by appearance Do not recognize properties or if they do, do not use them for sorting or recognition May not recognize shape in different orientation (e.g., shape at right not recognized as square)

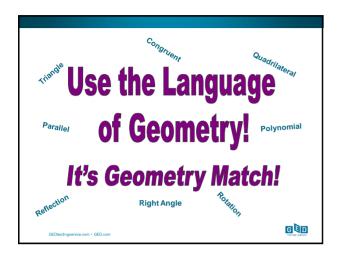
Geometry Reasoning Skills

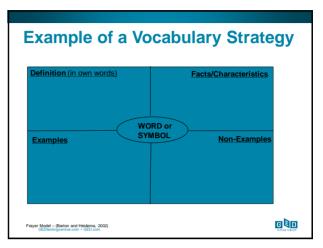


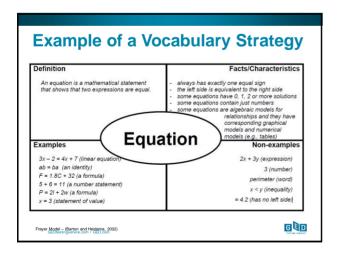














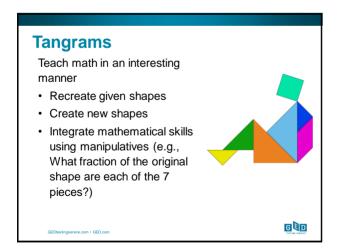
Tangrams

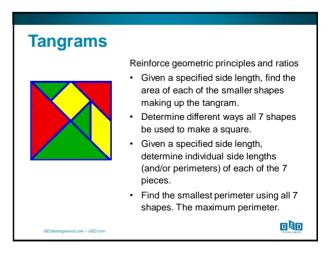
- · Originated in China
- · Its invention is unrecorded in history.
- The word "tangram" may have come from the Tanka people who were traders who played this puzzle and past it on via sailors.
- The word might come from an obscure English word "trangram" which means puzzle or trinket.
- Became popular during the 19th century in Europe and America.

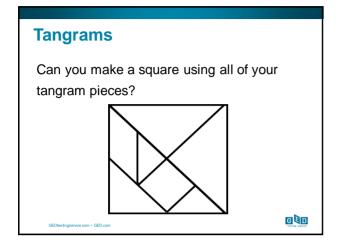


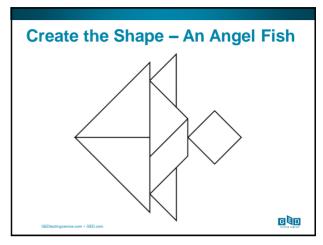


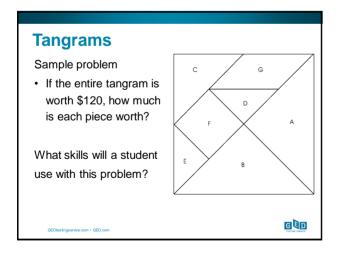
Tangrams Tangram puzzles are made of seven shapes: • 5 triangles • 1 square • 1 parallelogram

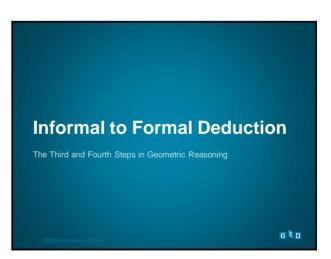


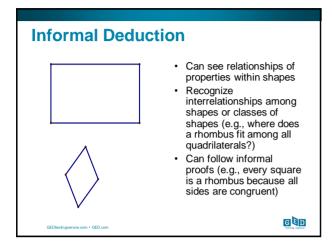


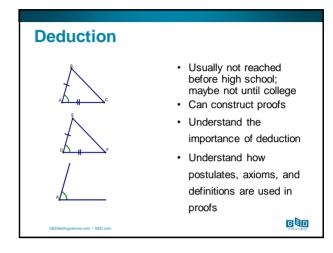


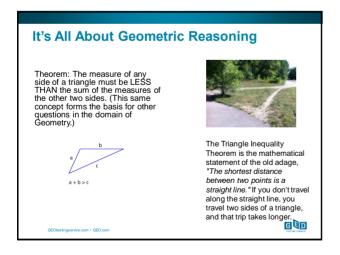






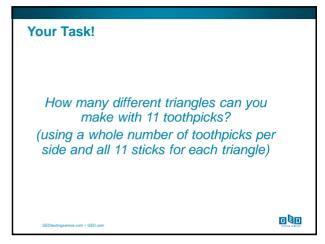


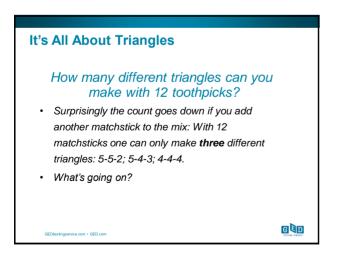


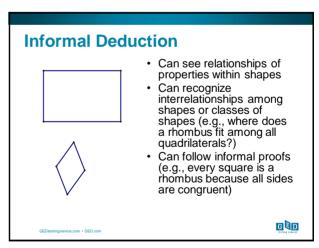




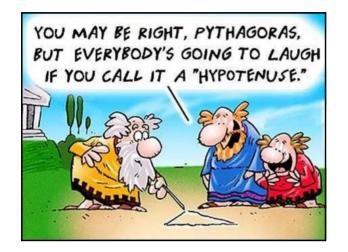


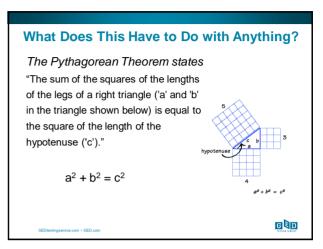


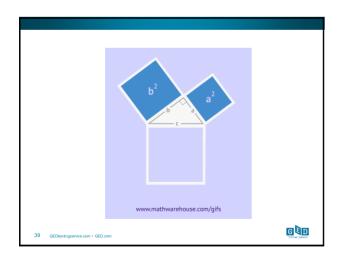


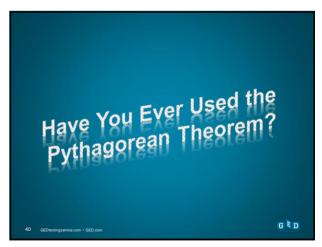


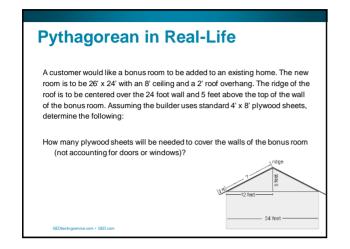
Another Angle: Development GED Test Geometry Reasoning Skills

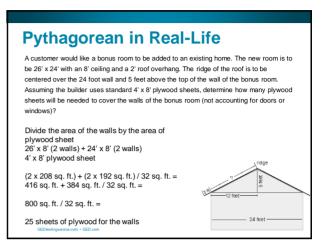


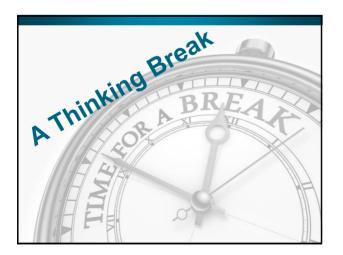




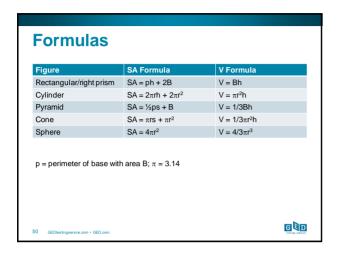


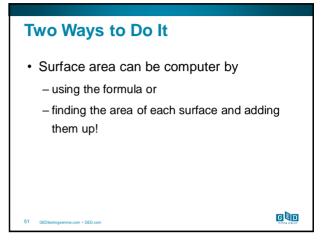


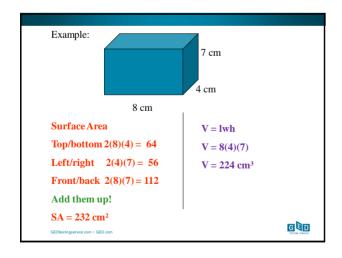


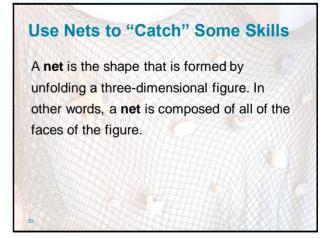


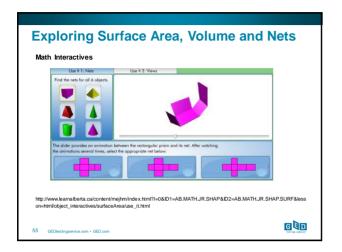


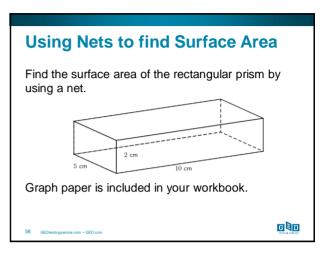


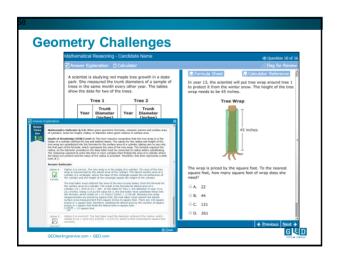


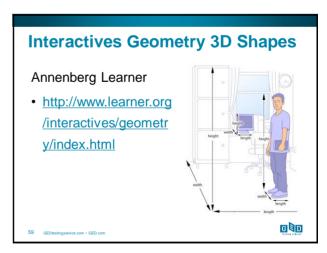












CHALLENGES ARE
GIFTS THAT FORCE US
TO SEARCH FOR A
NEW CENTER OF
GRAVITY. DON'T FIGHT
THEM. JUST FIND A
NEW WAY TO STAND
- OPRAH WINFREY

