

Tangram Puzzles

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Topic: Shape and Space

Grade Levels: 4-6

Curricular Competencies

- Spatial sense in terms of play and reasoning
- Critical thinking & problem solving skills
- Learn geometric vocabulary

Content Objectives

- Use reasoning and logic to explore, analyze, and apply mathematical ideas
- Become familiar with geometric shapes

Resources:

- <https://www.malimomode.com/2016/08/tangrampuzzles/>
- <http://www.supercoloring.com/puzzle-games/tangrams>

Description

A tangram is a traditional Chinese puzzle created by cutting a square into seven pieces, seven geometric shapes called "tans". Each tangram puzzle contains 2 large right triangles, 1 medium-sized right triangle, 2 small right triangles, 1 small square, and 1 parallelogram. The seven shapes can be rearranged in different patterns.

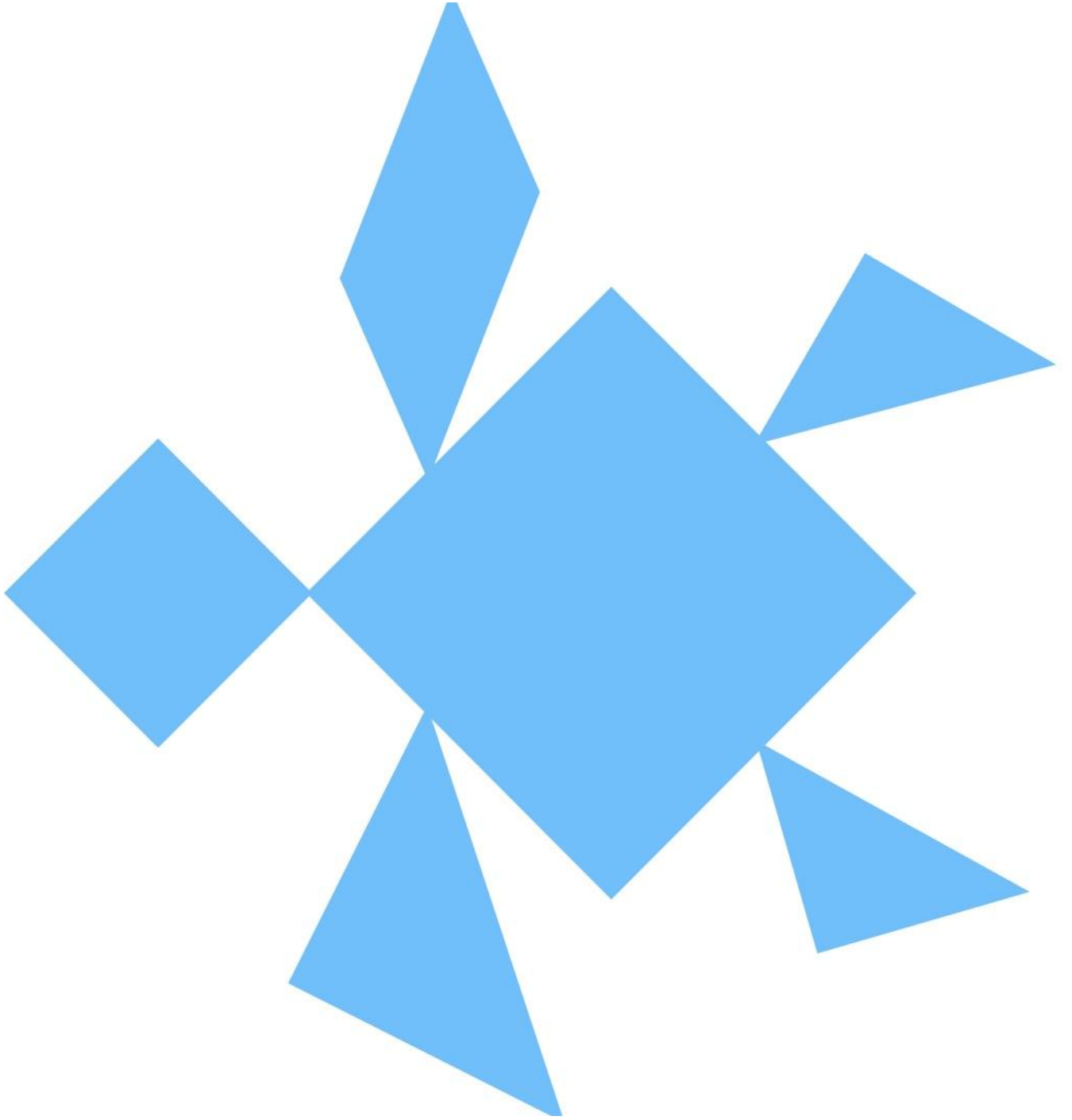
Tangrams may be used for teaching a wide range of grades and abilities. A pattern outline could be provided to give the student guidance as to the end shape.

To extend, tangrams pieces can be used to explore patterns or in discussions of perimeter and area.

Suggested Materials:

- Tangram blocks or cutouts

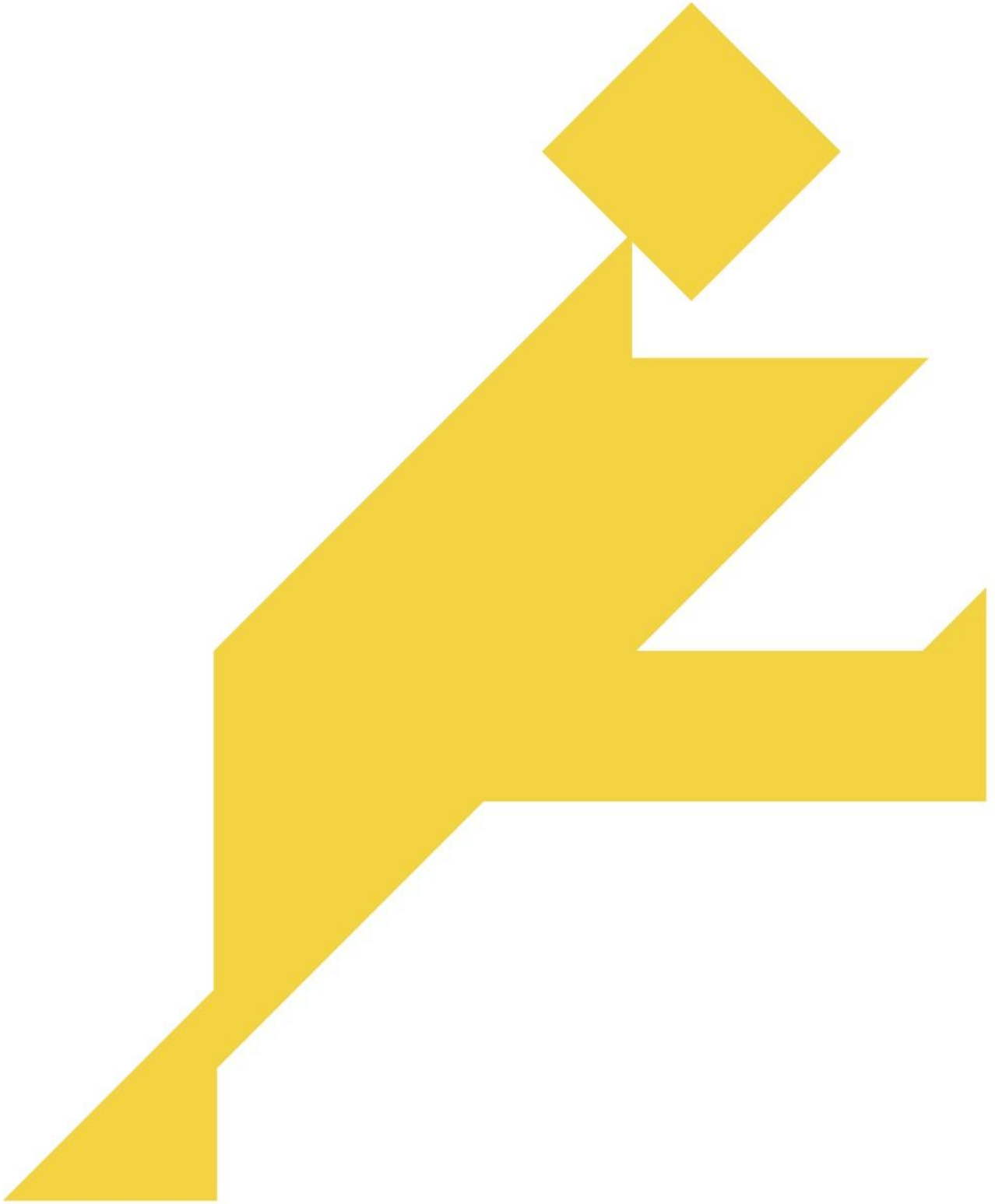
Tangram Puzzles
Puzzle 1



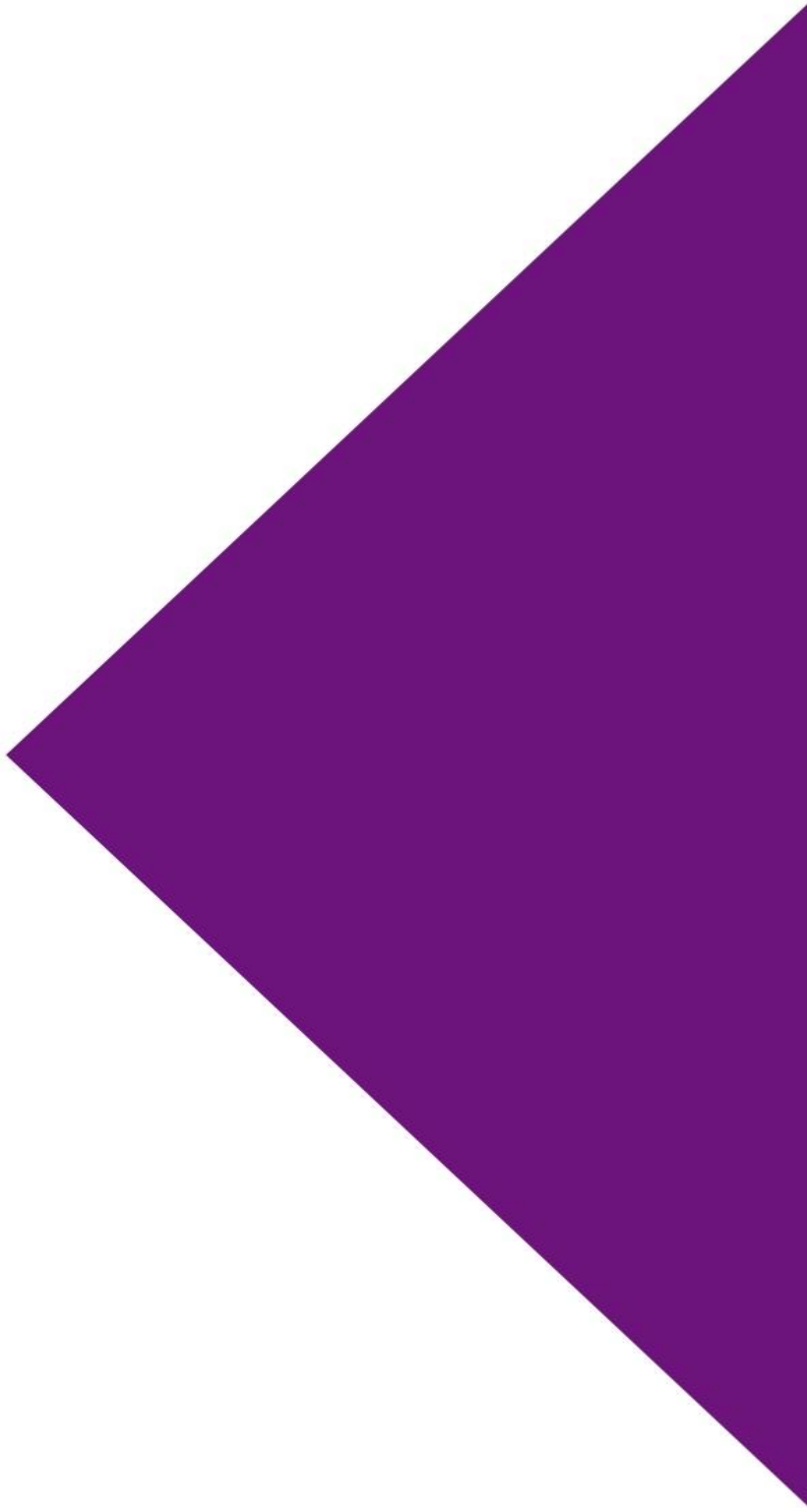
Tangram Puzzles
Puzzle 2



Tangram Puzzles
Puzzle 3



Tangram Puzzles
Puzzle 4



Tangram Puzzles
Other Puzzles

