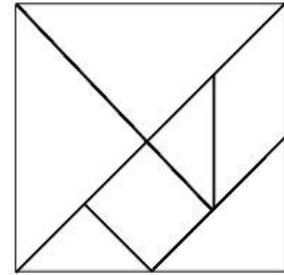
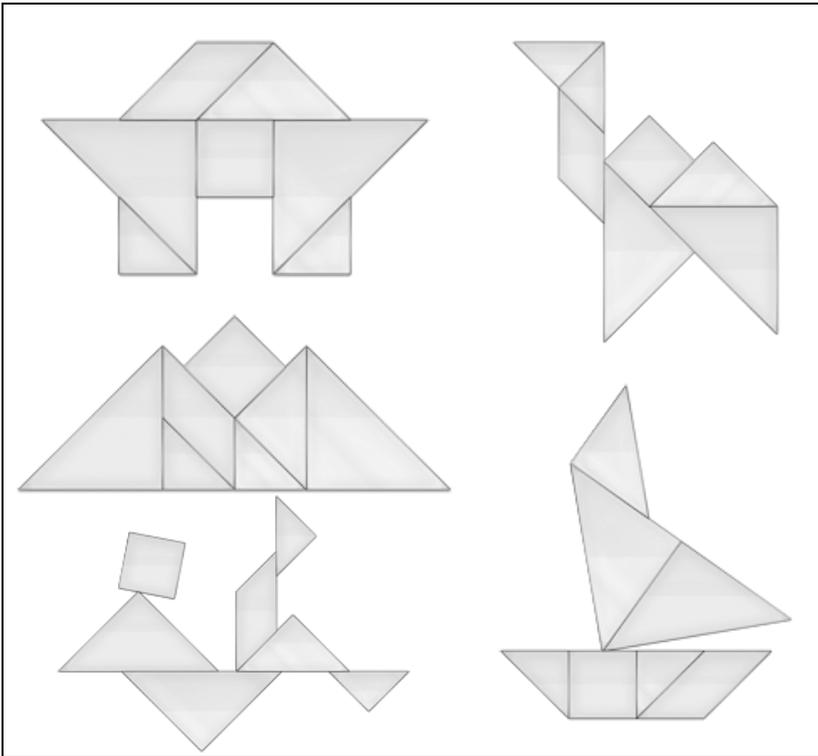


Beyond the Puzzle - Tangrams Unleashed

(2018 Mindcamp, Kaz Ogino)

1. What most people do



Common belief is that the Tangram originated in China during the Tang Dynasty (618-907 AD)

Today these 7 pieces can make over 6500 images.

(So, if you are 12 years old now and made a different tangram each day, you would be 30 years old when you finished.)

The legend of the tangram:

www.tangram-channel.com/legend-of-the-tangram/

2. Eco Tangram

- Reducing, Reusing, Recycling material for your tangrams
- Examples: magazines, calendars, greeting cards, old art or old photos that you were going to throw out.

3. Tangramming without a net / DIY Tangram



Diagram 1

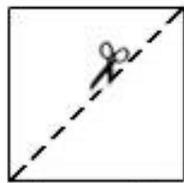


Diagram 2

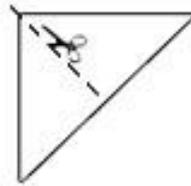


Diagram 3

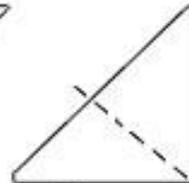


Diagram 4



Diagram 5



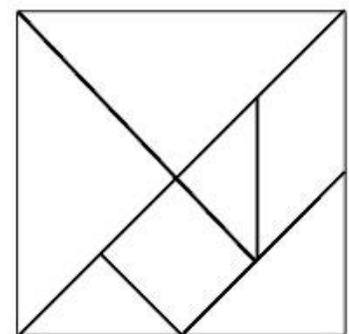
Diagram 6



Diagram 7



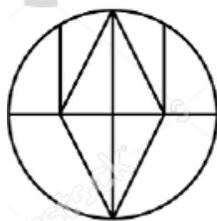
Diagram 8



IDEAS and REFERENCES

- Tangram websites:
 - www.tangram-channel.com (lots, lots more in the site when you follow the links)
 - nhadulterd.org/grants/AC6_Tangrams_Across_the_Curriculum.pdf (a treasure of unique and learning puzzles)
- Google:
 - tangram animation, tangram images, , tangrams printable
 - Tangram shapes, people, animals, numbers, letters, symbols, common objects, boats, planes, building, plants
 - Also: Sei-Shonagon (966-1017 AD Chie-no-Ita, Japanese tangram puzzle)
 - tangram heart, circle tangram (images),
- Tangramming Without A Net (look here, no templates)
www.think-maths.co.uk/downloads/origami-tangram (Origami Tangram Folding Instructions and video)
www.essentiallearningproducts.com/tangram-tricks-michael-naylor (learning tools)
- DIY Tangram (Create your own designs).
 - e.g. www.shutterstock.com/search/tangram+set?image_type=vector
 - goggle youtube: 3D tangram (made out of; foam sheets, wood, Legos) and www.tangram-channel.com/crafts-activities/3d-tangrams/
- Tips:
 - The parallelogram piece not reversible for eco-tangrams. You may need to re-cut the flip-side for some puzzles.
 - Use different coloured pieces for the different shapes to help you get used to the pieces.
 - Learning skills; Differentiating tasks, Spatial reasoning, Critical Thinking, Problem Solving
 - www.youtube.com/watch?v=D6hBEs8EIIIM (tips to help solving tangram puzzles)
- Other supplies:
 - printer to print downloaded templates
 - Exacto knife and steel edged ruler and a cutting mat or thick cardboard like mat board
 - White glue or acrylic matt media
 - Geometry set
 - Foam sheet 4"x6" – Crafter's Square 32 coloured pieces. Foam core 20"x30" Elmer's Ross Craft Board

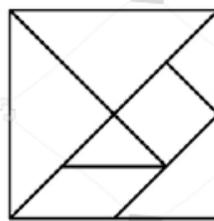
Variants of the Tangram Game



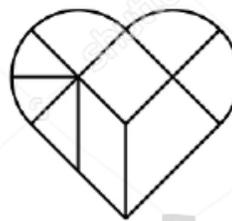
Circular Puzzle



Magic Egg



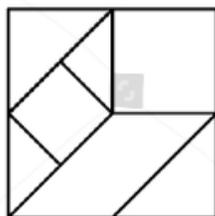
Tangram



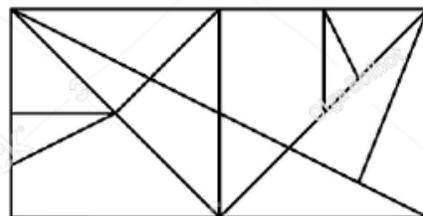
Broken Heart



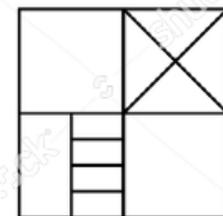
Vietnamese Circle



Pythagoras



Archimedes



Mongolian Puzzle

www.shutterstock.com/search/tangram+set?image_type=vector

