

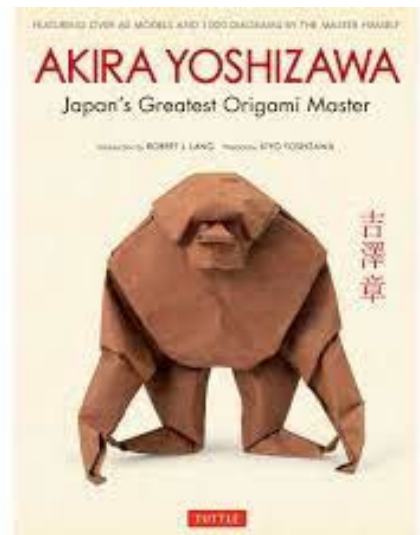
## OPEN-AIR ART LESSONS: MATH MEETS ART or Storybook Garden Unit

by Shannon Reibel Mills

- ⇒ Origami
- ⇒ Fractions: Halves and Quarters
- ⇒ Physics of balance
- ⇒ Life imitating art imitating life: intertwined creativity of word and image, story and symbol.

**ARTIST:** Akira Yoshizawa – (1911– 2005) Japanese 20<sup>th</sup> century “father of modern origami.” Yoshizawa was a mechanical draftsman who used the origami techniques he loved as a child as a teaching tool for a geometry class.

- Yoshizawa developed new origami techniques including “wet folding” where dampened paper can be molded and sculpted into shapes and form in addition to traditional folds of origami.
- Considered the “Grandmaster of Origami,” Yoshizawa also developed a notation system with dotted lines, solid lines and arrows which made folding instructions accessible and universal (no longer dependent on language).



### BIG IDEAS:

ORIGAMI – the art and tradition of folded paper.

“Oru” = means \_\_\_\_\_ + “Kami” = means \_\_\_\_\_ = ORIGAMI

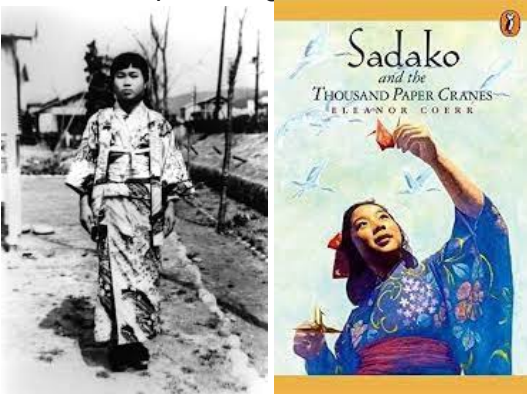
CULTURE – the character and “flavor” of a place or people created by shared history, traditions, values, beliefs, and lifestyle.

**LEGEND** – a traditional story sometimes believed to be true although NOT proven by history (example - the Legend of King Arthur).

**Japanese Legend of the Paper Crane:** In Japan, the Crane is a mythical bird which is said to live 1,000 years and represents good fortune and longevity. Legend says that if you fold \_\_\_\_\_ paper cranes, this will happen:

- a) You will also live 1,000 years
- b) Your wish will be granted
- c) You will be able to fly

**History:** The Paper Crane became a symbol of \_\_\_\_\_ thanks to Sadako Sasaki who tried to fulfill this legend by folding 1,000 paper cranes wishing to be healed from Leukemia, the cancer she developed due to radiation poisoning from the atomic bomb dropped near her home in Japan at the end of WWII.



Short New report on Legend of Paper Crane & History of Sadako Sasaki:

<https://www.youtube.com/watch?v=L5WAhLzE4>

6 Minute storybook version of THE STORY OF SADAKO SASAKI & THE THOUSAND PAPER CRANES:

<https://www.youtube.com/watch?v=5wRabZXQ-hQ>

Step by Step tutorial on How to fold Origami Crane - <https://www.youtube.com/watch?v=Ux1ECrNDZl4>

References: , <https://www.nytimes.com/2005/04/02/arts/design/akira-yoshizawa-94-modern-origami-master-dies.html>