

Fun at the Ginkgo SunClock -

** Activity ideas developed by Ginkgo SunClock Artist Christine Schilling*

To tell the correct time:

- * Stand on the current month (in the central column) & note the colored glass dots underlining it.
- * Be like the hour hand on a clock - Raise your arms up to the sky to cast a shadow on a Number.
- * The correct hour is the Number who's color matches the dots under the current month.

* WHY 2 sets of numbers?

The BLUE set signifies Standard time while the RED denotes Daylight Savings time.

* WHY Red and Blue?

Red is a warm color (think summer) Blue is a cool color (think winter)

O-O

The Sun Clock is a treasure Hunt! - LOOK for hidden "Easter Eggs"

- * Many of the Number Markers have unique Counting Patterns built into the design.
- * Some Numbers feature "Pictures on a Plate" - china dinnerware (crocery) with a special image, shape or pattern.

SPECIAL: "Easter Egg" Cheat Sheet !

(these are just *Some* examples – there are more to discover – tell us what you see!)

* Blue Numbers = Standard time = Winter

Nine – Why are there Triads (groups of three)? How many 3's make 9?

One – Only one solitary grinning Kitty, and some single blue squares

Two – Did you notice the 'Doubled up' blue lines?

Three - It's a Triple Header: Three petals on each white tile, 3 hearts @ the base, 3 blue Triangles

Four - 4 squares @ the edge of ea. bit of 'crocery' + four-sided mirror shapes + 4 green 'beans'

Five – Find 5 clusters of 5 marbles

Six – See 6 blue squares on each side (left and right)

* Red Numbers = Daylight Savings Time = Summer

Eight - Look for rays of a morning sunrise, a barn & a Rooster crowing at the break of day.

Ten – Count 10 juicy red tomatoes, ten lemon yellow squares

Noon – What fruits do you see? 4 groups of three shapes ($4 \times 3 = 12$) one dozen red 'beans'

One – One is a hot mid-day sun! What fruit is ripening in the mid-day sun?

Two – Discover 2 (Dos!) Pairs of hearts, + Double Decker squares

Three – The Tulips each have 3 petals & 3 leaves - find other Triads (as: squares, dots)

Four - 4X4- How many Quad Clusters can you count? Name two 4 sided shapes you can see.

Five – Find a 5 pointed star, 5 clusters of 5 gold marbles, 5 red flowers on each side.

Six - See Six red peppers!

Seven - Search for 'Bundles of Sevens'! - 7 glass dots on ea. side, 7 yellow 'n black plate pcs.

7 white petals on the flower

Fun ACTIVITIES at the Ginkgo SunClock - (page 2)

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Shape Hunt Questions:

*How many different shapes can you see and name?

(Look for: circles, triangles, squares, diamonds, parallelograms, oblongs.)

*Which is the Most Important / significant shape used on the SunClock (Guess why!)

*Why is the overall shape of the Sun clock the shape of a Ginkgo Leaf ?

1. The path the sun makes is an ellipse.

2. The elliptical shape of the sun's arc & the 'month column' looked to me (the artist) like a Ginkgo leaf.
(and that's called 'artistic license!').

3. The Ginkgo tree is revered in Japan - it's a 'loving fossil, and one survived the Atomic Bomb blast.

Things To Do -

*Turn and face the direction the Sun rises.

*Turn and point to the direction where the Sun Sets.

*With your arm, trace the Arc the Sun makes across the sky.

*Stand on the Cardinal Point that indicates where your school or your house is.

*Count how many different tiny "Pictures on a Plate" you can see.

**then, Wonder: Why is each picture placed just there? (Eg: Why are the Barn and Rooster placed where it is?)*

*Hunt for and stand on your favorite Fruit or Flower. - How many fruits & flowers can you find?

Stand on the Number that has your favorite "Picture on a Plate"(such as chicken, cat, star, flower)

Directions / Cardinal Points (NSEW) –

**Many cultures associate a Color with each Cardinal direction.*

Some Examples:

North - often noted in White or Black, and occasionally Red.

East - represented in many cultures by the colors Green, Yellow, Red and sometimes Blue.

West - White in Chinese & Turkish lore, but Black in the Lakota language.

On occasion, Blue or Purple sometimes represent West. (Question: by who, when?)

South - shown by some cultures as White, Yellow, Red, or even Orange.

Center – the Mayans associate the Center with the Earth itself, and color it Green!

Extensions:

*Vocabulary words:

Gnomon - the part of the sundial that casts the shadow. Here, **You** are the Gnomon!

Cardinal Points -

Lore -

Ellipse -

Crockery -

Artistic License -

*Books:

Shadows - By [Carolyn Otto](#) - Explains what shadows are & how and why they change shape.
Scholastic Science Readers™ Level 1: