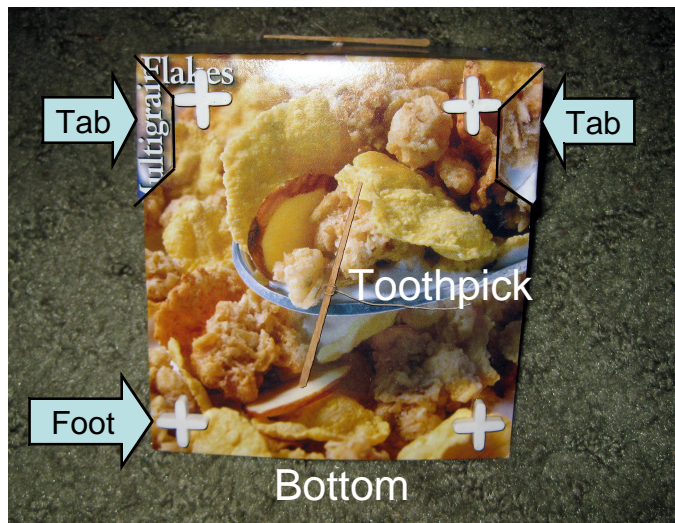
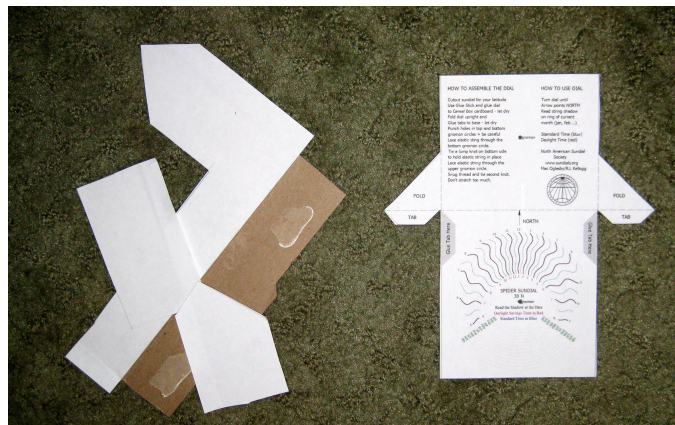
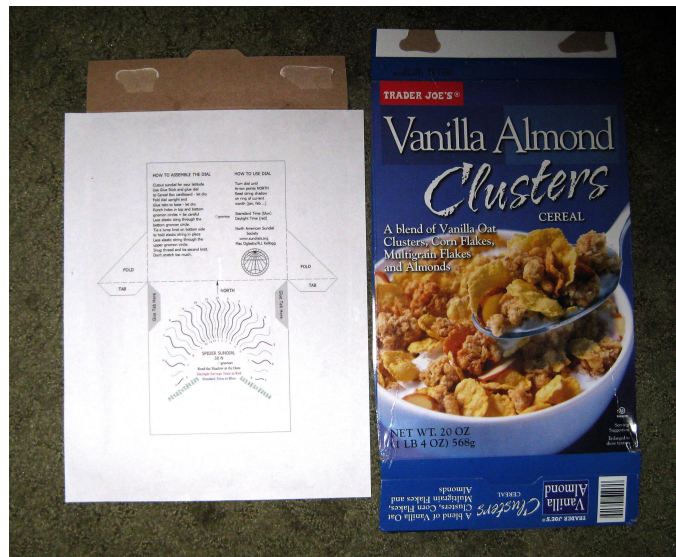
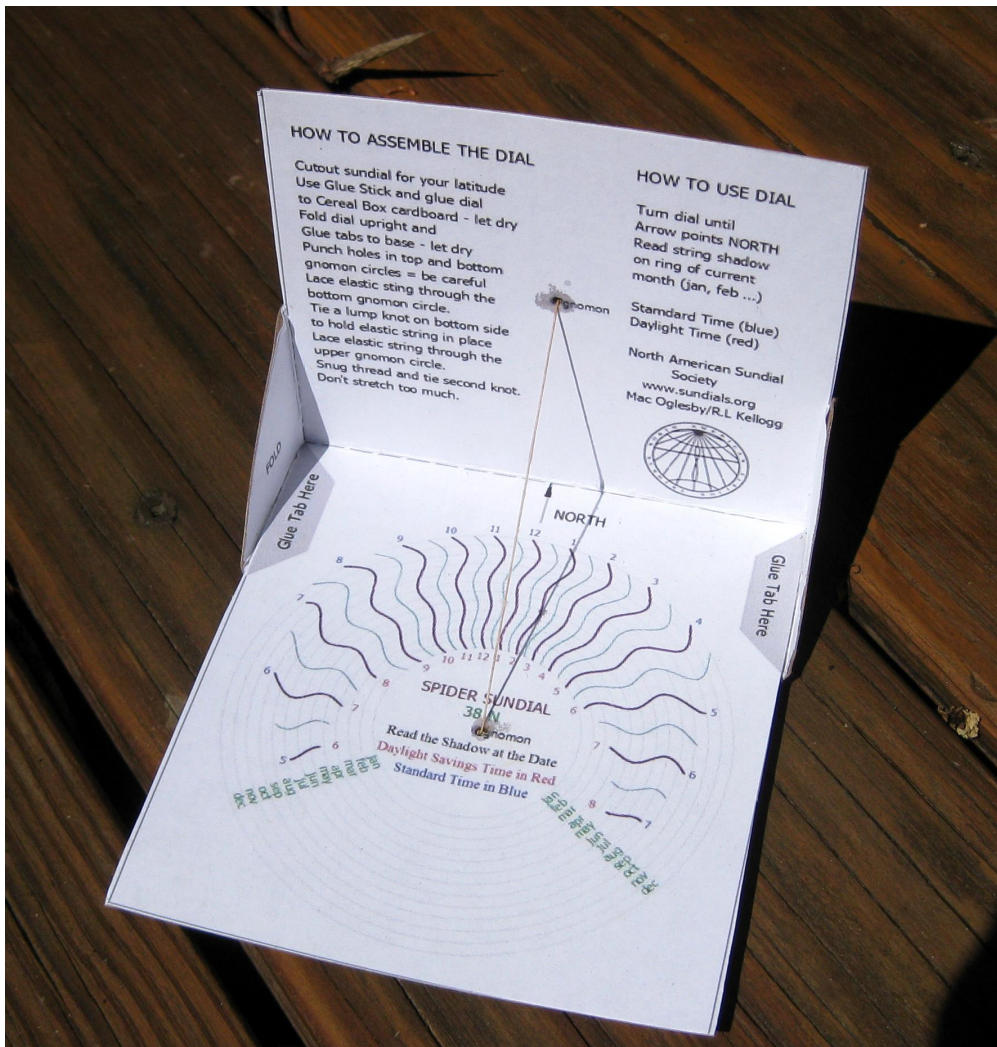


# Spider Dial Assembly Instructions

1. Print off the Spider Dial closest to your latitude. Reproduce it in sufficient quantities so each student will have their own dial.
2. Find an old cereal box, cut out one side.
3. Use a glue stick and cover the unprinted sided of the cereal box with glue.
4. Lay the Spider Dial print on top of the glued surface. Use the side of a pen or pencil to smooth out. Make sure that all of the dial glues to the cereal box.
5. When the glue is dry, carefully cut out the dial on the solid lines. Do not cut any dotted lines.
6. Use a ruler and the tip of the scissors to score all dotted lines for folding.
7. Punch holes at the circles that say "Foot". In a later step elastic thread will go through these holes.
8. Fold the dial upright, and fold tabs inward.
9. Glue the tabs UNDER the face of the dial where its says "Glue tabs here". This makes the dial stronger.
10. If you like, add "feet" to the bottom of the dial. We used tile separators but plastic stick-on tabs work well too.
11. Thread elastic string through the punched holes. We tied the string to toothpicks. Once in place, you can also use a small drop of super glue in the hole to cement the string firmly in place.



# Using the Dial



1. Place dial on level ground. Arrow at the top of the dial points North.
2. Read the time where the shadow intersects the date ring of the current month.. To get the time, estimate how far the shadow is between the hour and half-hour curves.
3. Standard Time is in BLUE, Daylight Savings Time is in RED.
4. You will need your longitude correction+. Example: Dial is at 77W longitude just outside Washington DC. Eastern Time zone is at 75W. Therefore the dial is 2° W of the meridian. Multiply by 4 to get minutes of time, so the dial is 8 minutes W of the meridian. If East, add the time, if West, subtract.
5. Example: The Dial show almost exactly 2pm Daylight Time for mid September. At 8 minutes W of the meridian, clock time is 1:52 pm

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gnomon circles = be careful  
Lace elastic string through the  
bottom gnomon circle.  
Tie a lump knot on bottom side  
to hold elastic string in place  
Lace elastic string through the  
upper gnomon circle.  
Snug thread and tie second knot.  
Don't stretch too much.

### HOW TO USE DIAL

Turn dial until  
Arrow points NORTH  
Read string shadow  
on ring of current  
month (jan, feb ...)

Standard Time (blue)  
Daylight Time (red)

North American Sundial  
Society  
[www.sundials.org](http://www.sundials.org)  
Mac Oglesby/R.L Kellogg

○ gnomon



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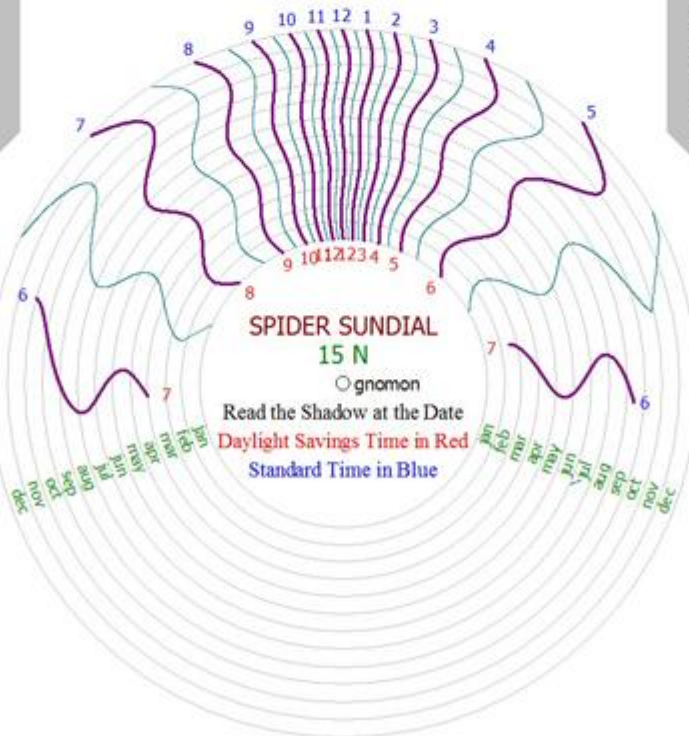
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NORTH



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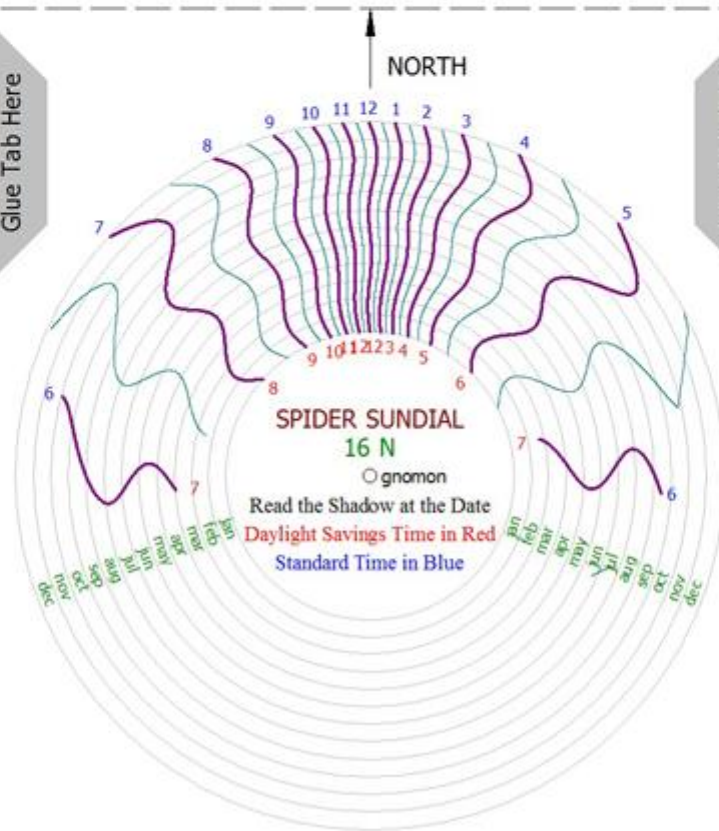
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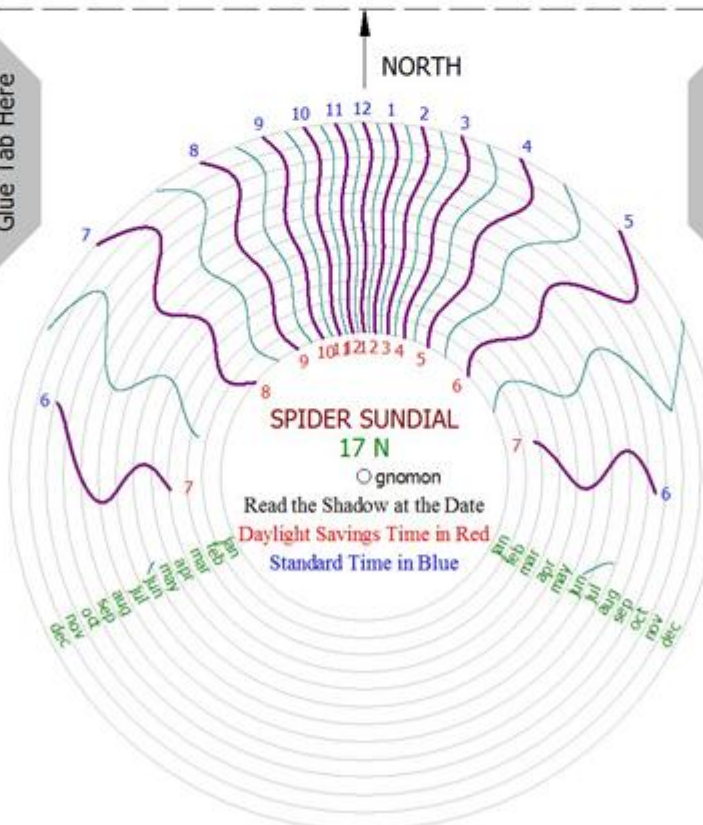
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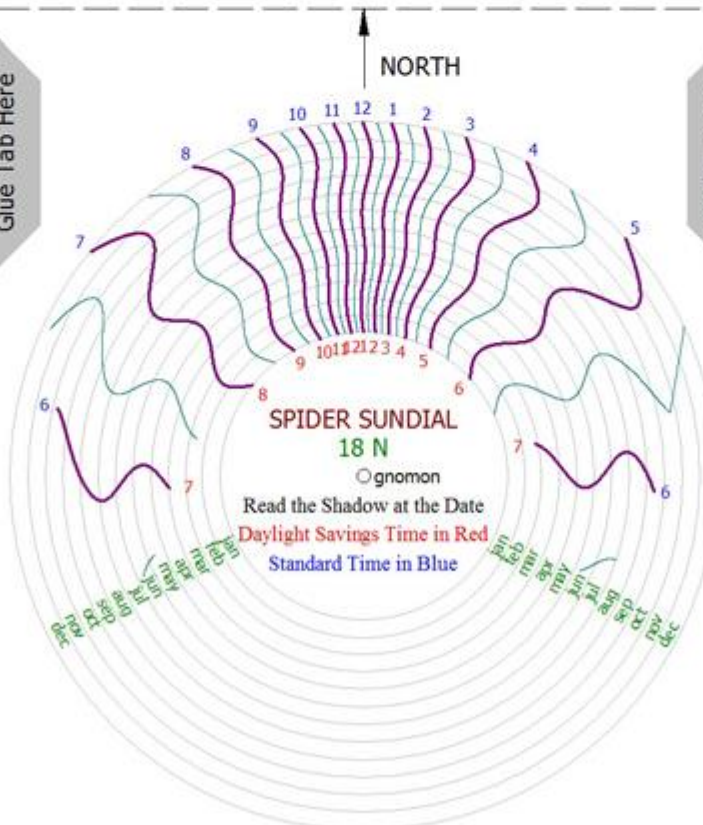
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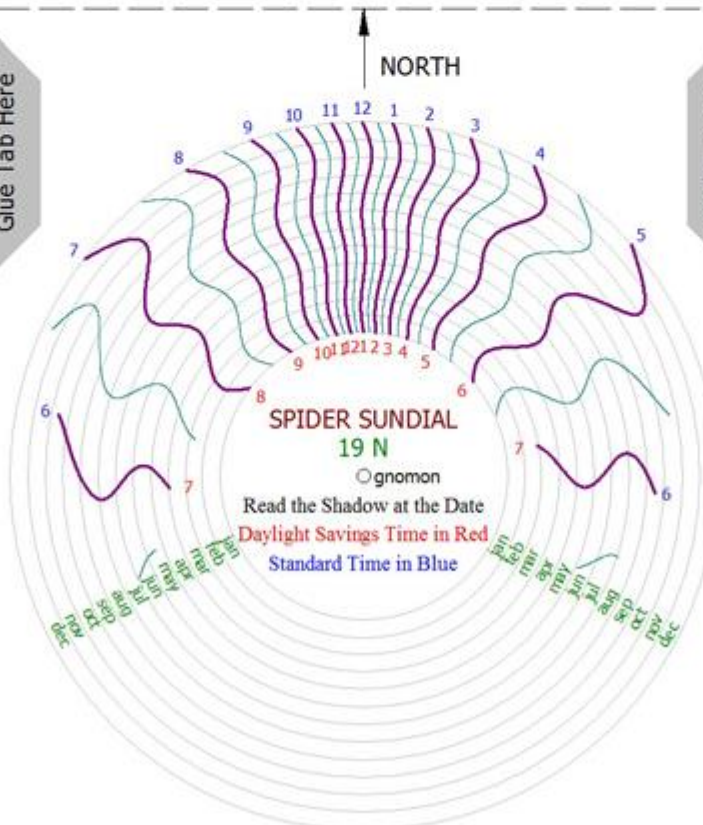
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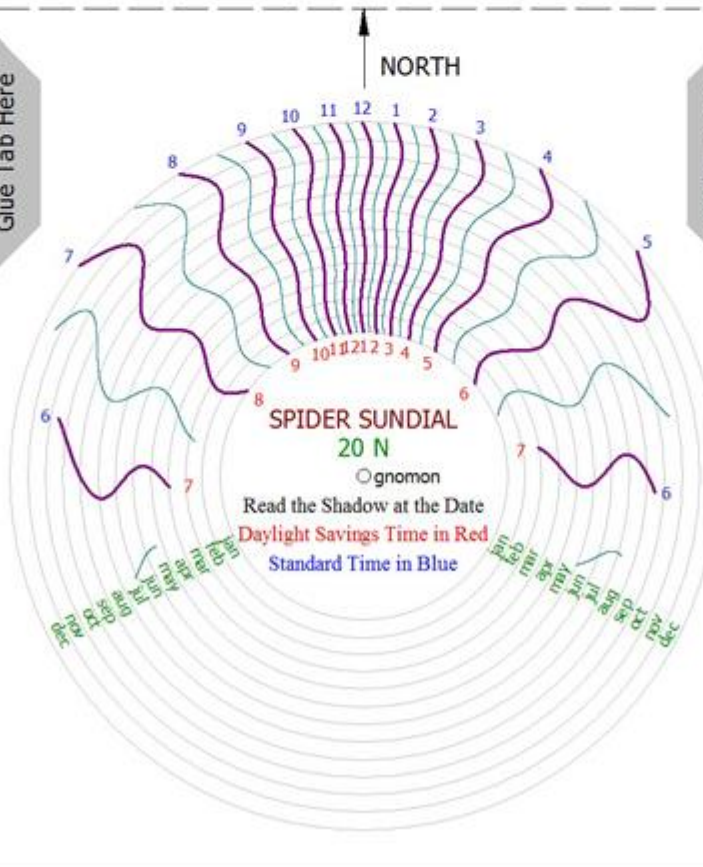
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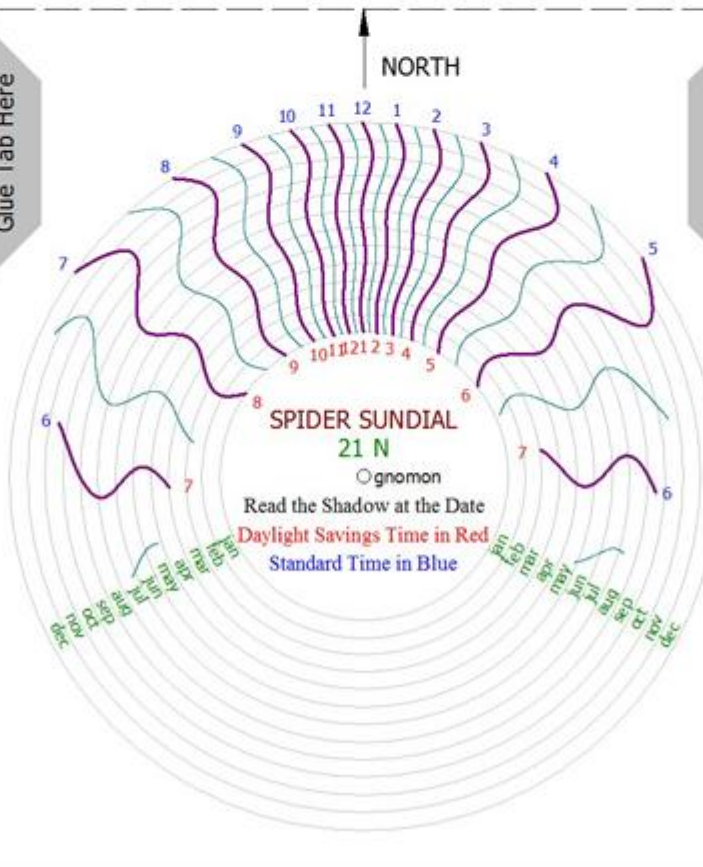
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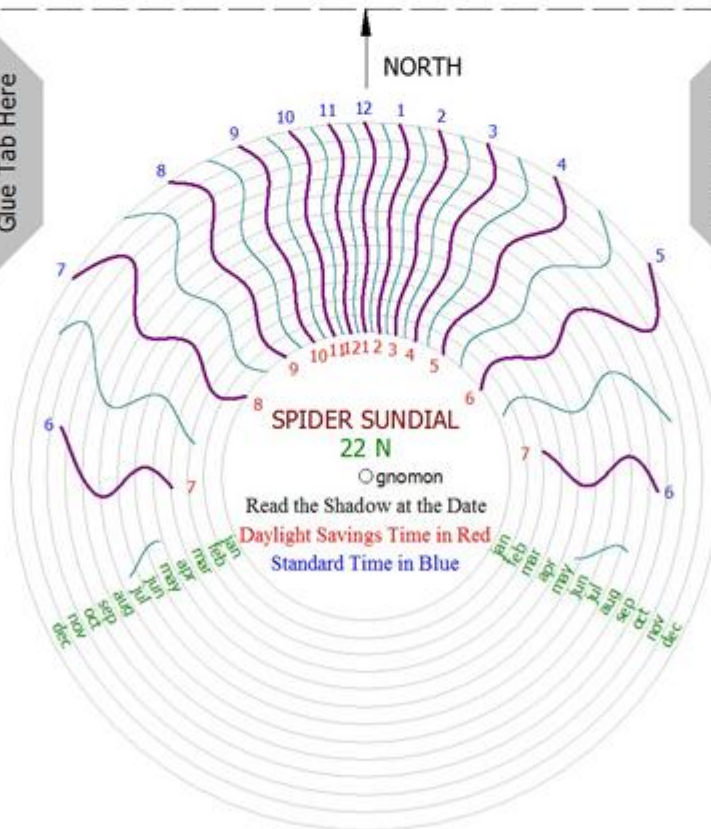
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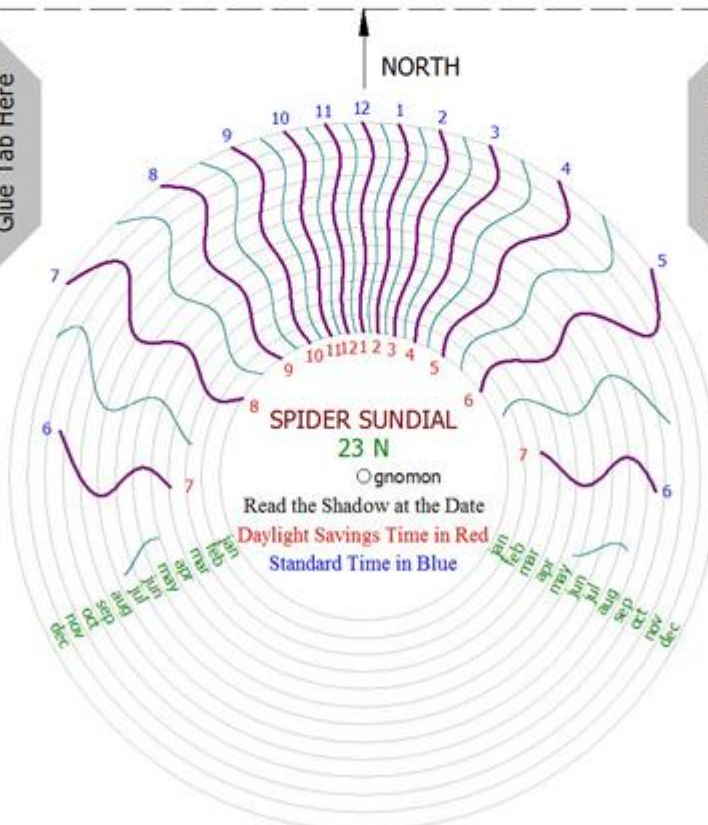
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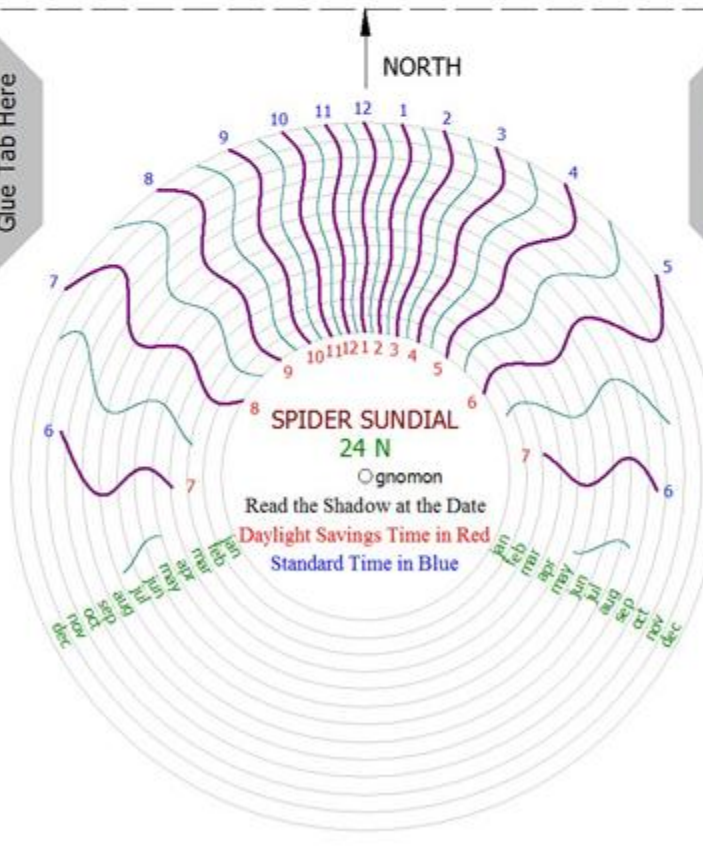
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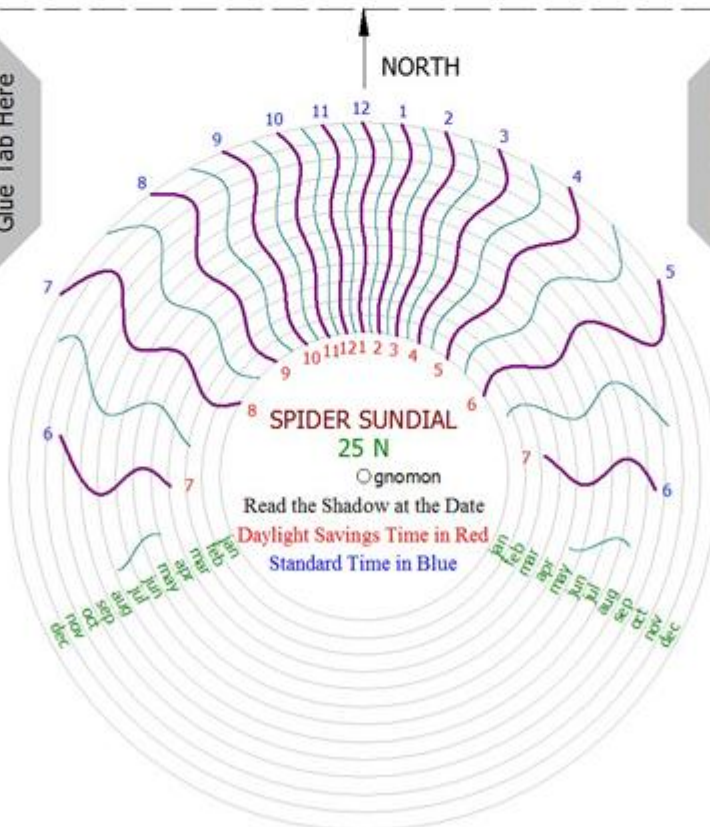
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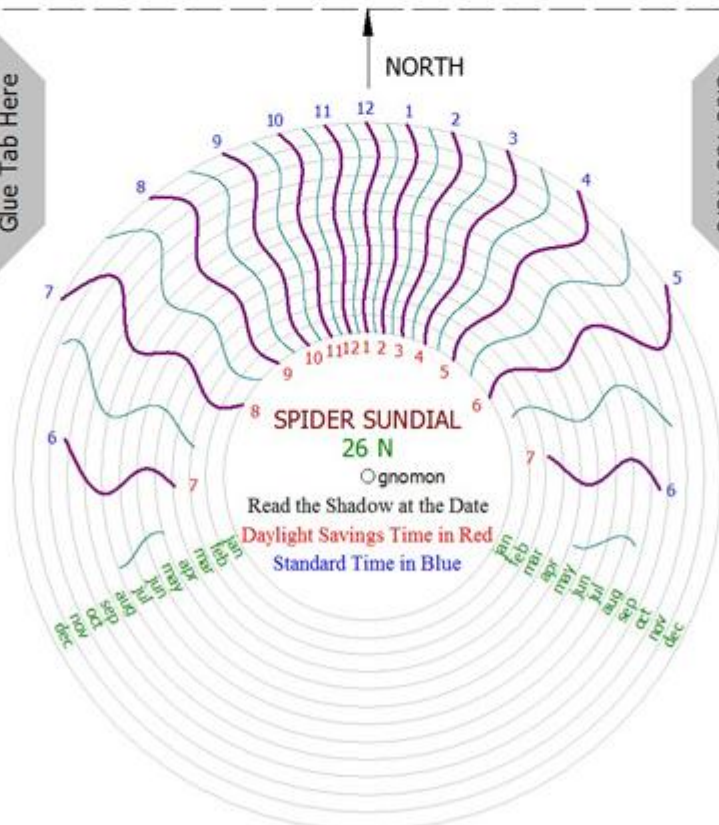
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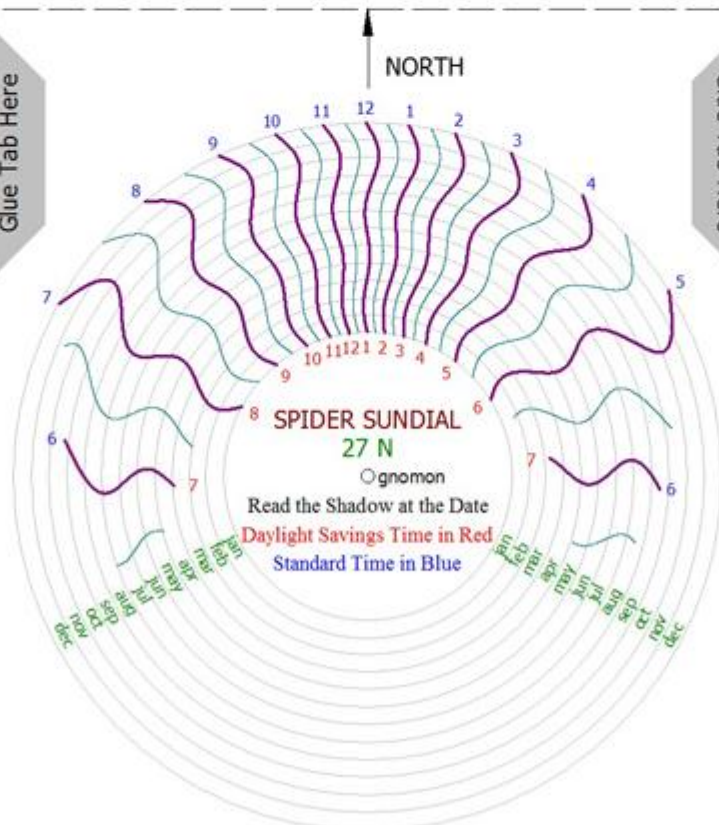
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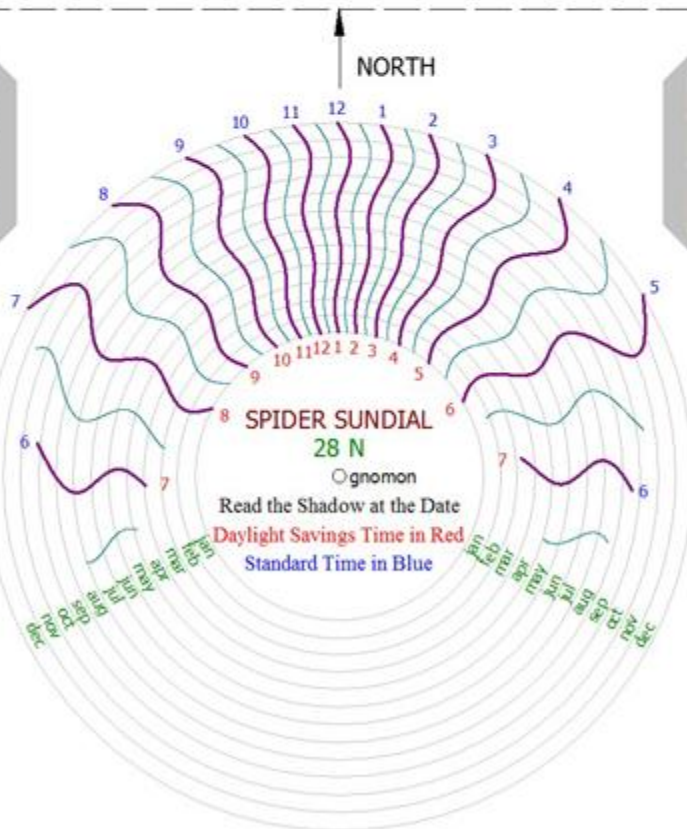
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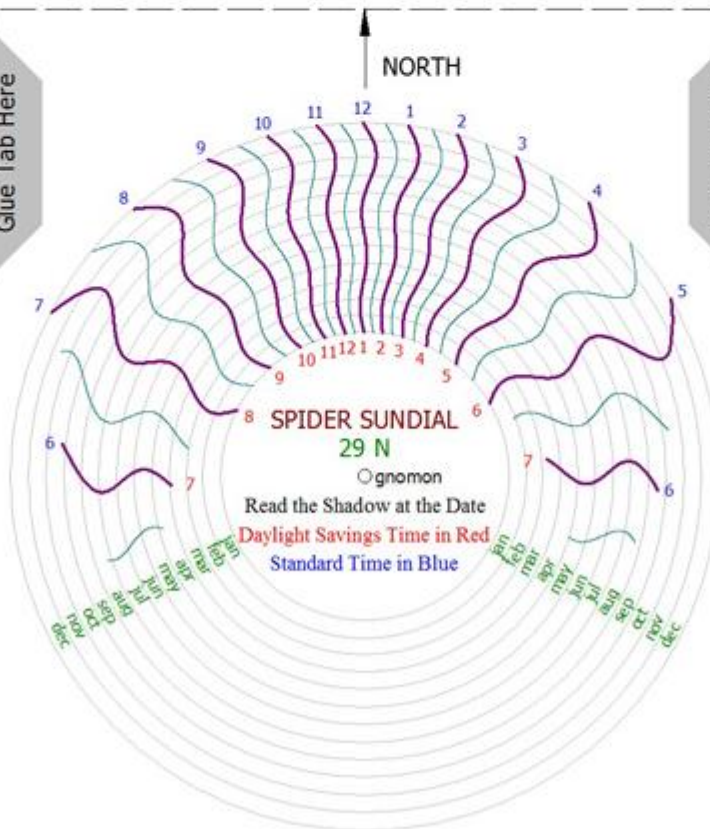
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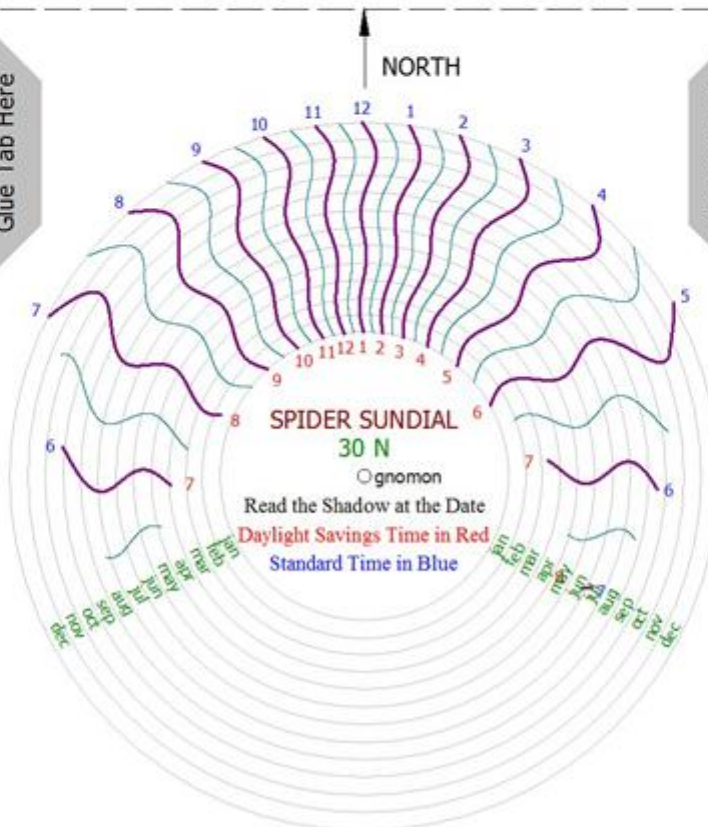
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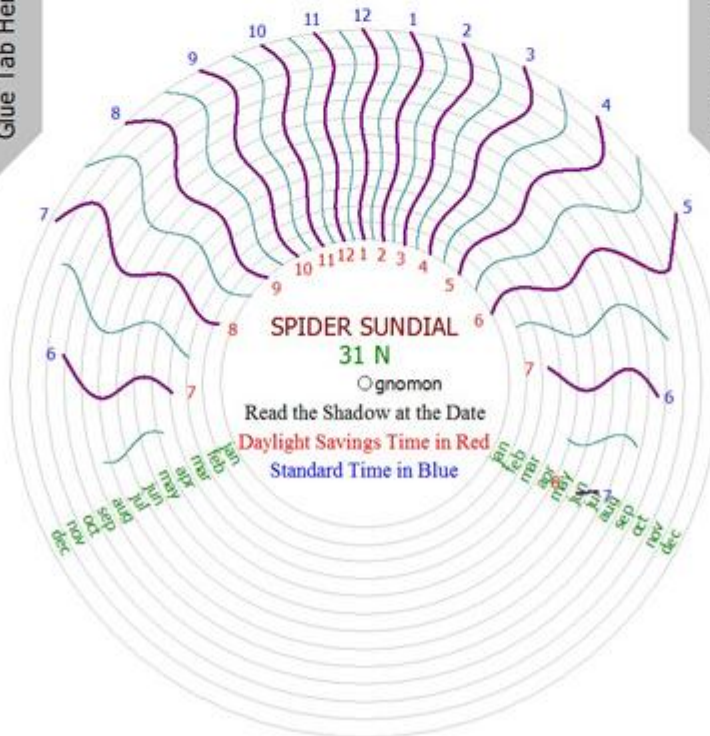
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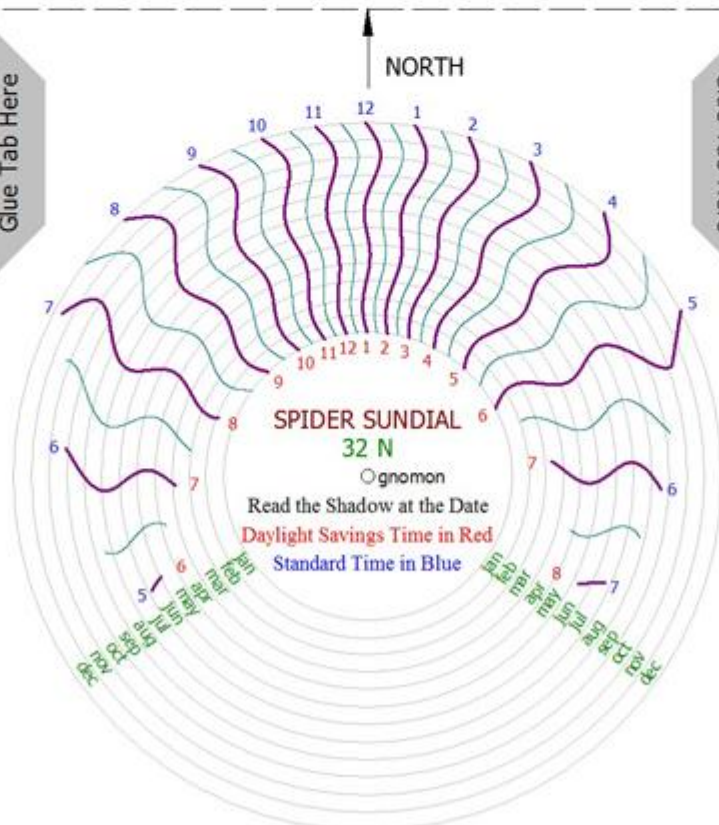
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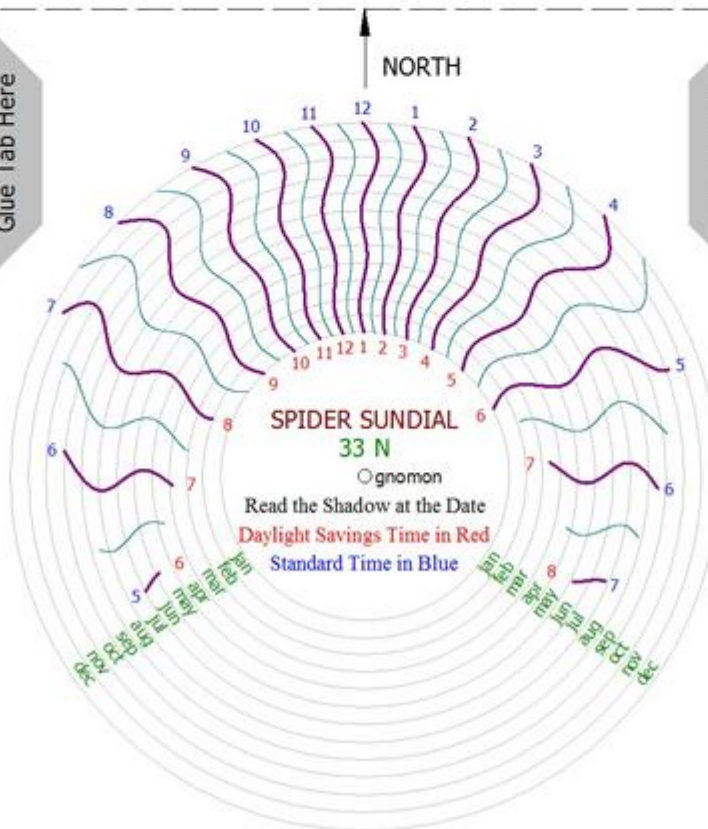
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Snug thread and tie second knot.  
Don't stretch too much.

### HOW TO USE DIAL

Turn dial until  
Arrow points NORTH  
Read string shadow  
on ring of current  
month (jan, feb ...)

Standard Time (blue)  
Daylight Time (red)

○gnomon

North American Sundial  
Society  
[www.sundials.org](http://www.sundials.org)  
Mac Oglesby/R.L Kellogg



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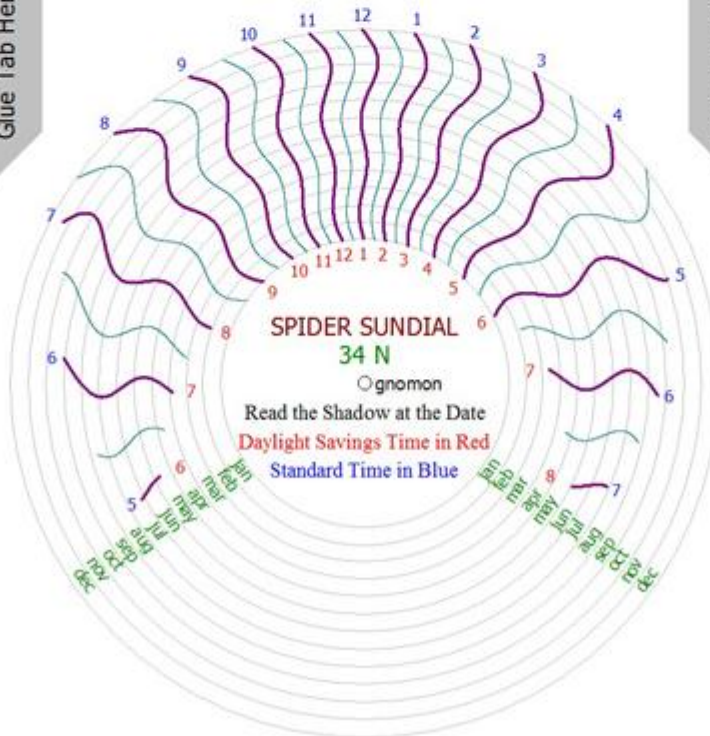
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NORTH



### HOW TO ASSEMBLE THE DIAL

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North American Sundial  
Society  
[www.sundials.org](http://www.sundials.org)  
Mac Oglesby/R.L Kellogg

○ gnomon



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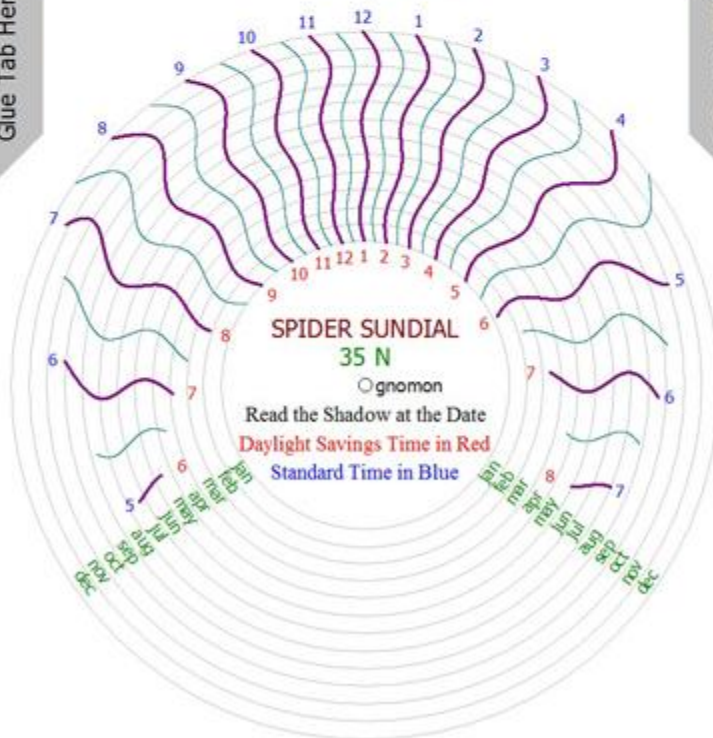
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NORTH



SPIDER SUNDIAL

35 N

○ gnomon

Read the Shadow at the Date

Daylight Savings Time in Red

Standard Time in Blue

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[www.sundials.org](http://www.sundials.org)  
Mac Oglesby/R.L Kellogg

○gnomon



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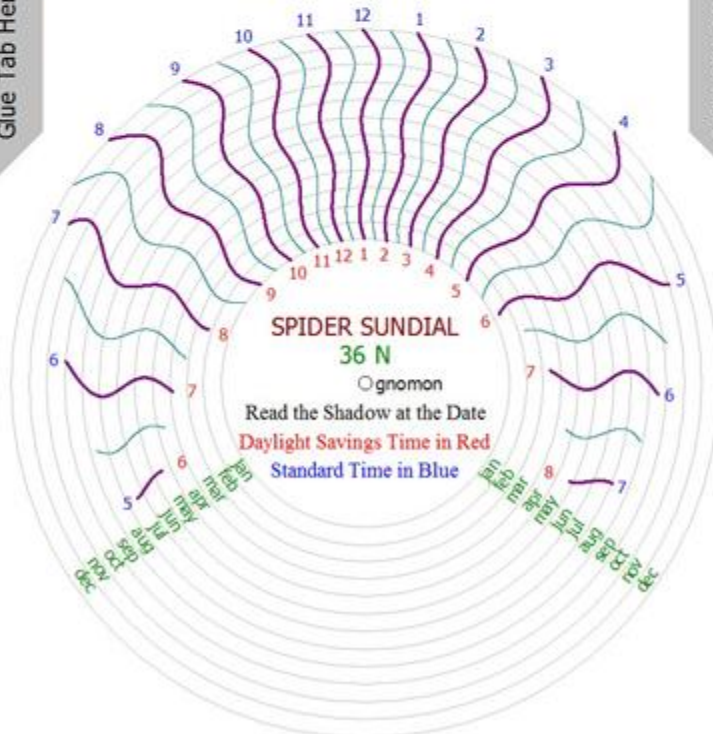
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Mac Oglesby/R.L Kellogg

○ gnomon



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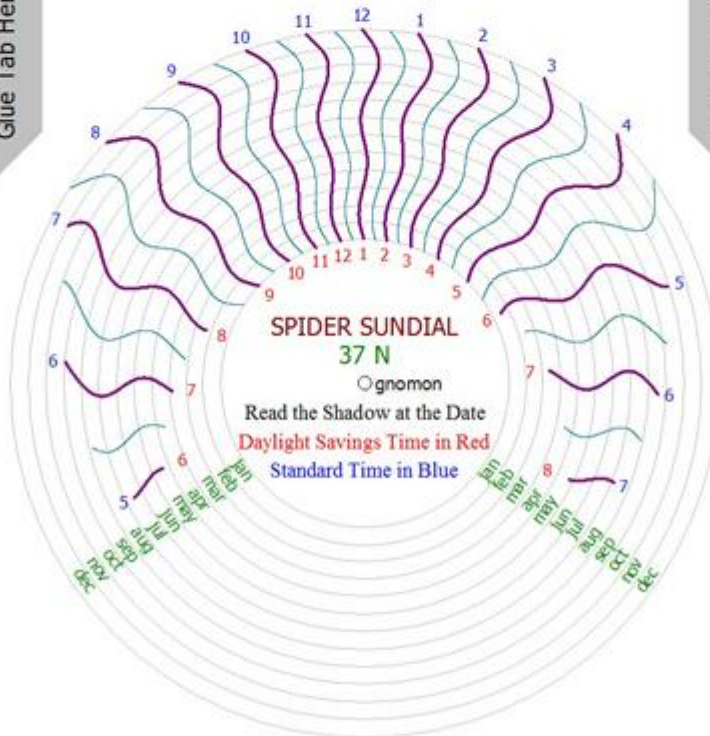
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Mac Oglesby/R.L Kellogg

○ gnomon



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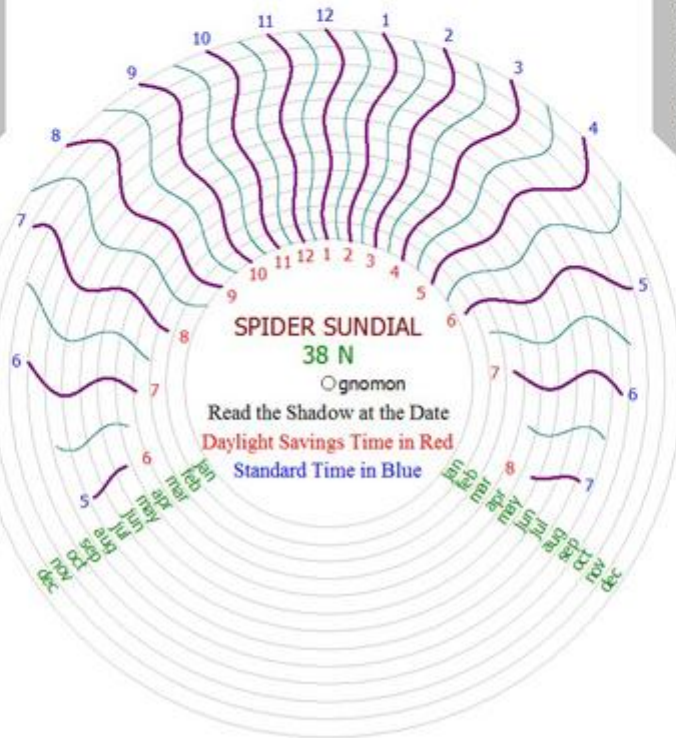
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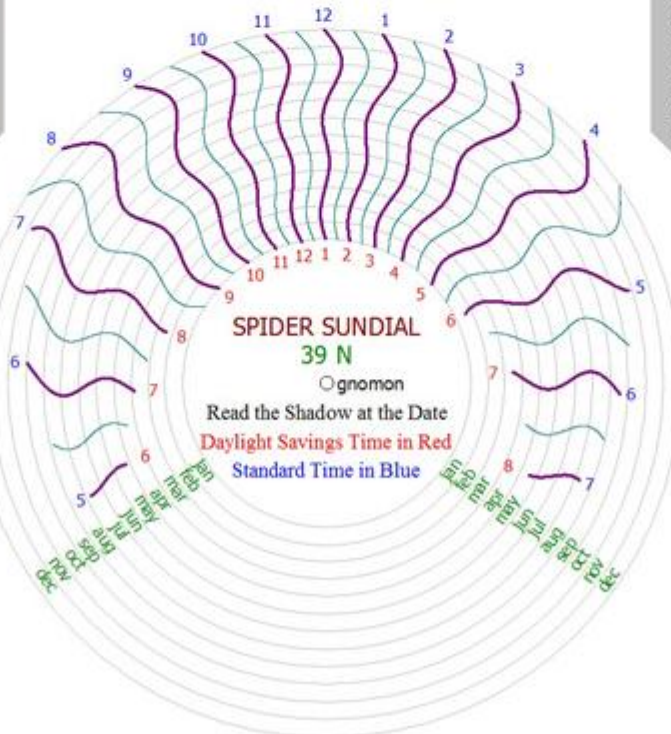
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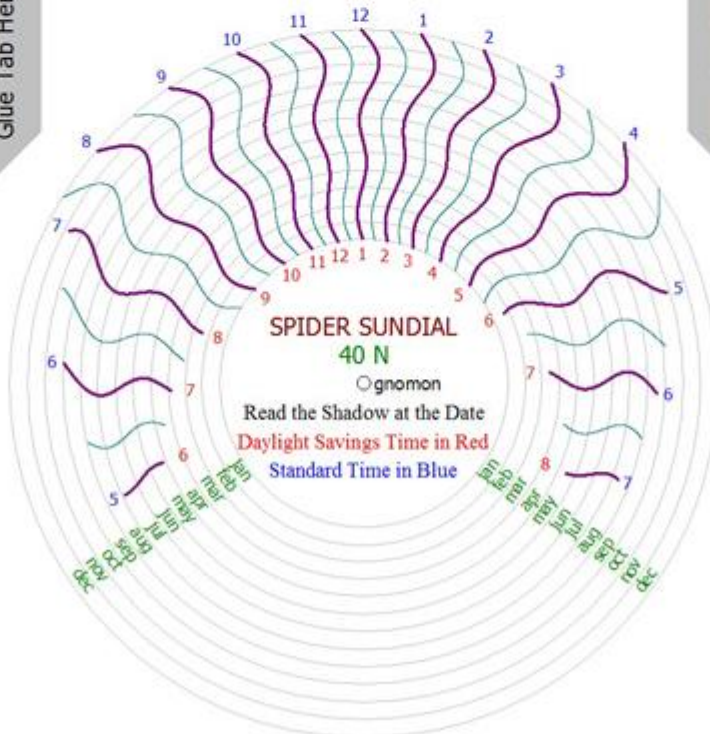
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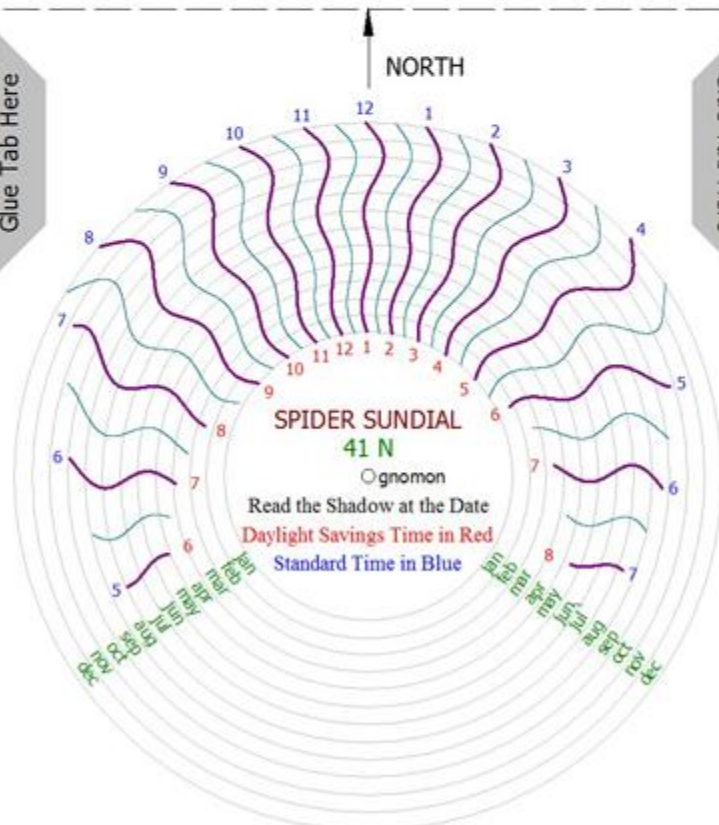
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Mac Oglesby/R.L Kellogg

○gnomon



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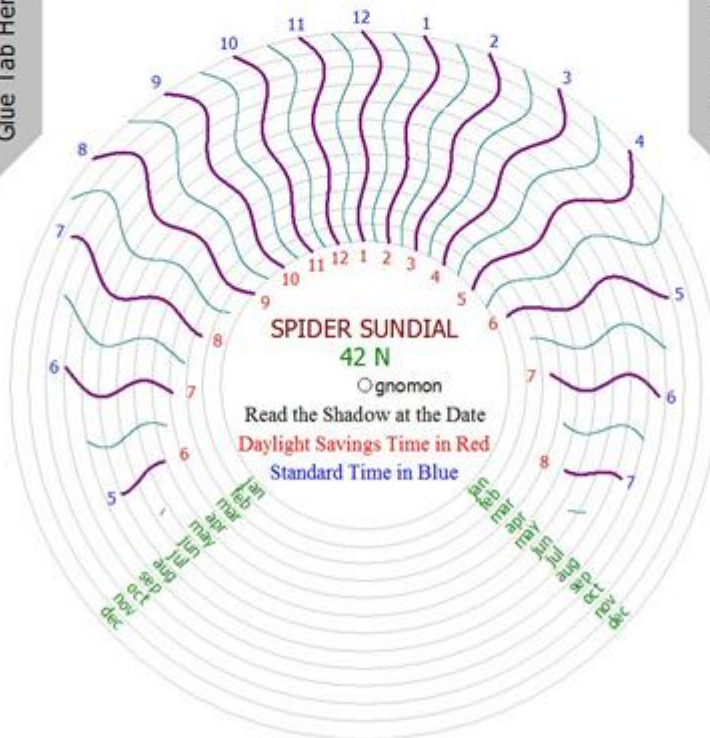
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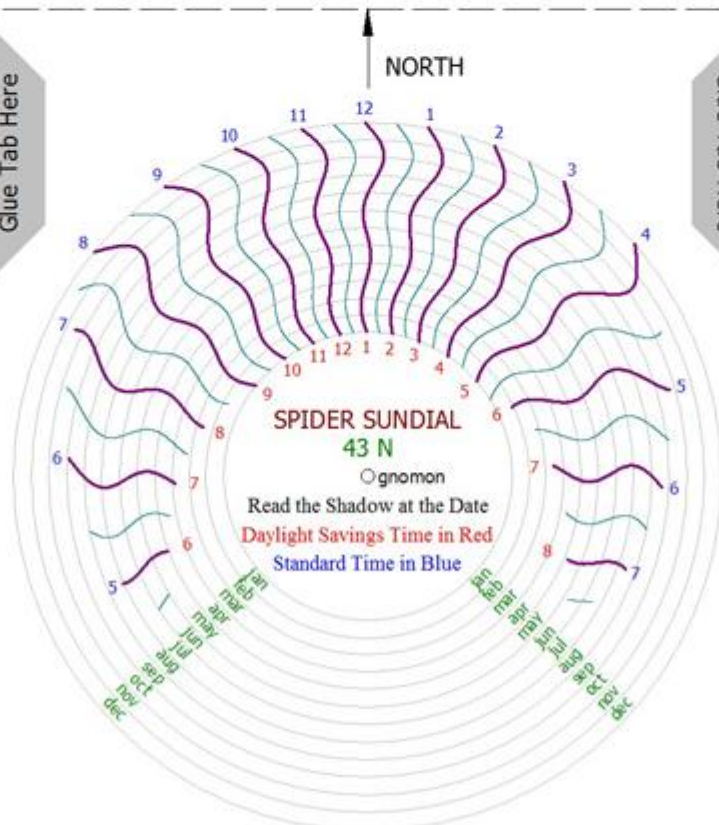
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○gnomon



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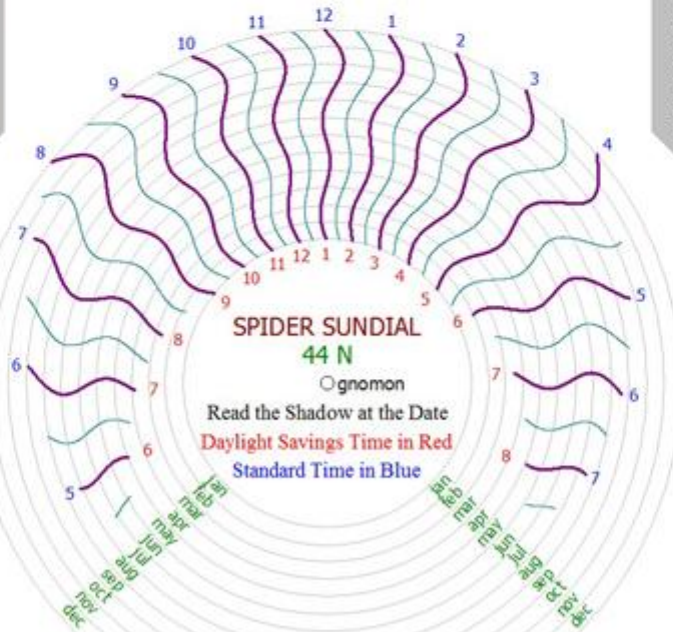
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○ gnomon



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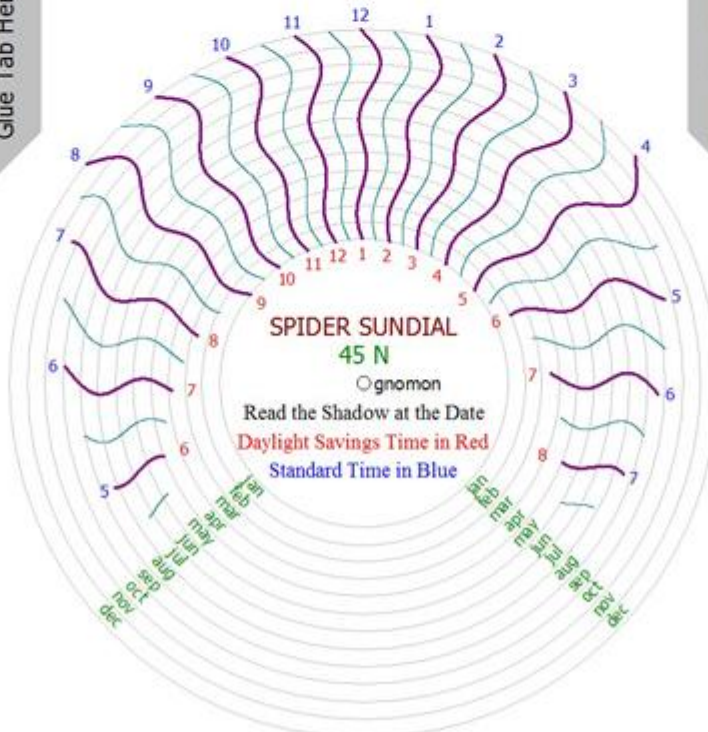
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Society  
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Mac Oglesby/R.L Kellogg



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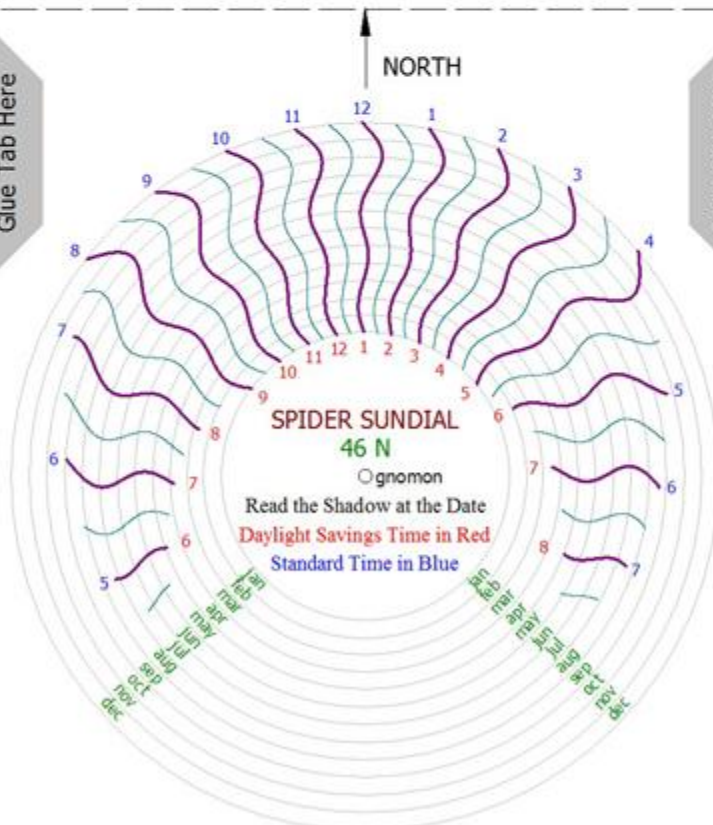
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○ gnomon



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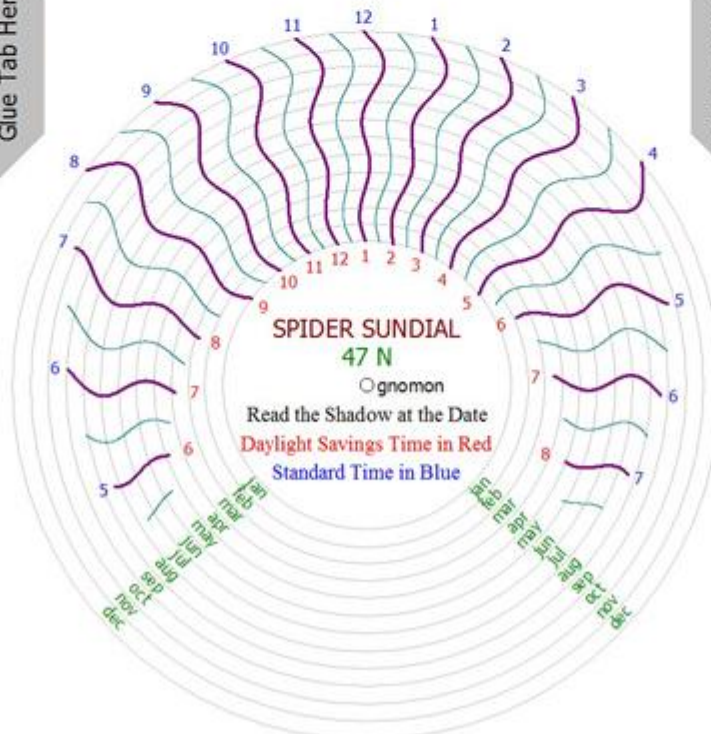
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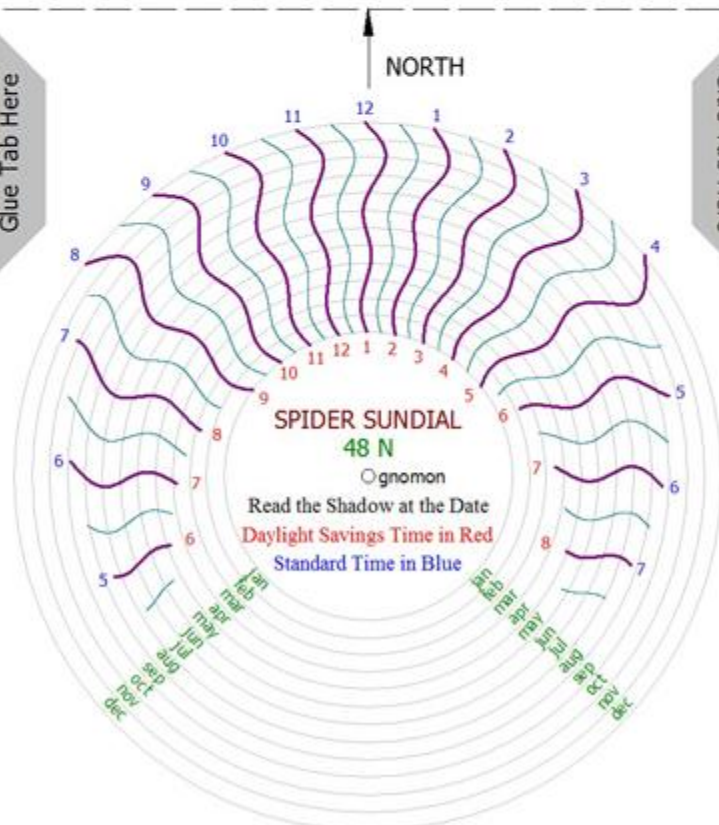
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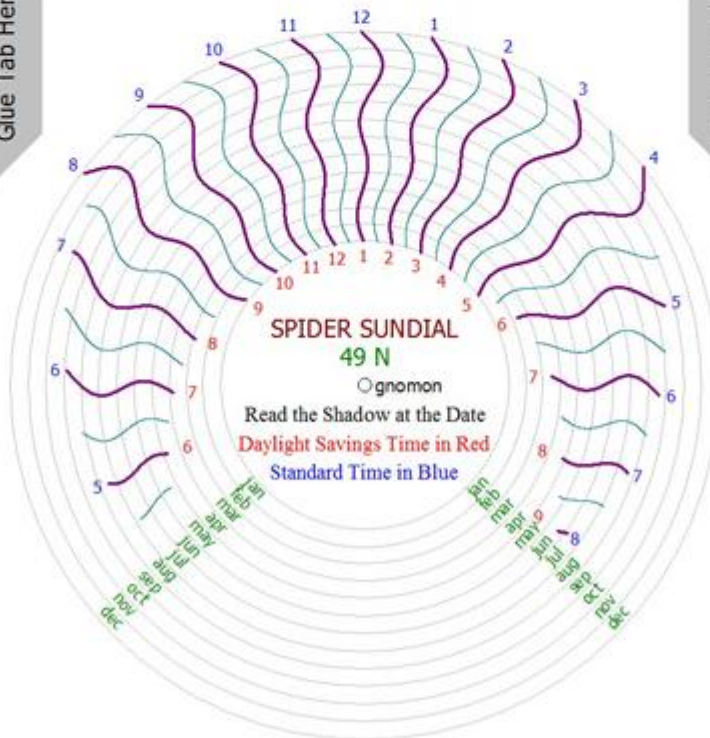
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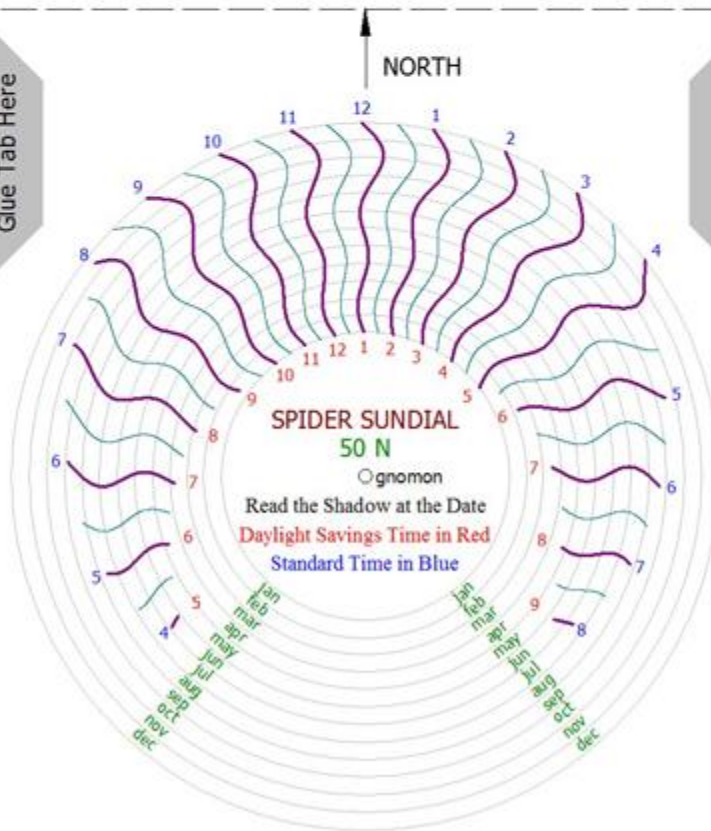
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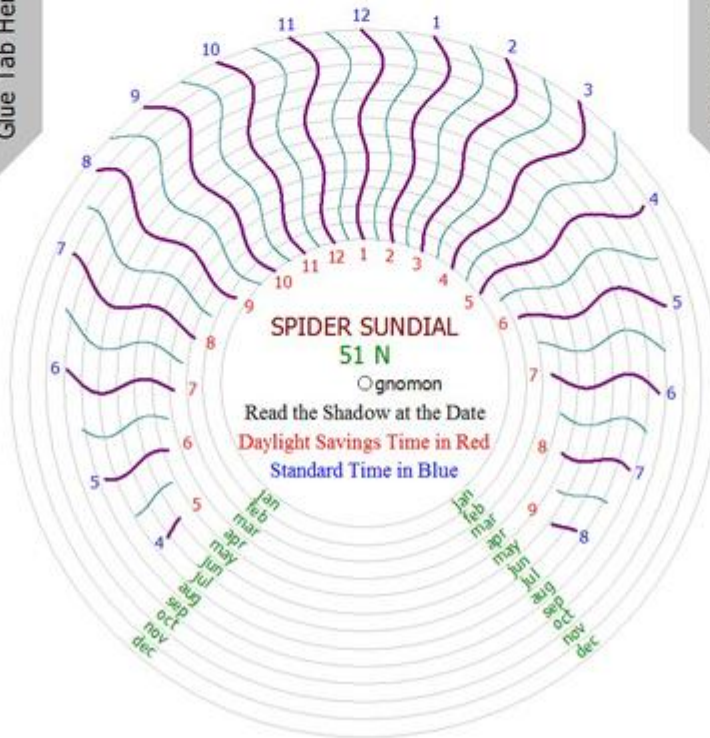
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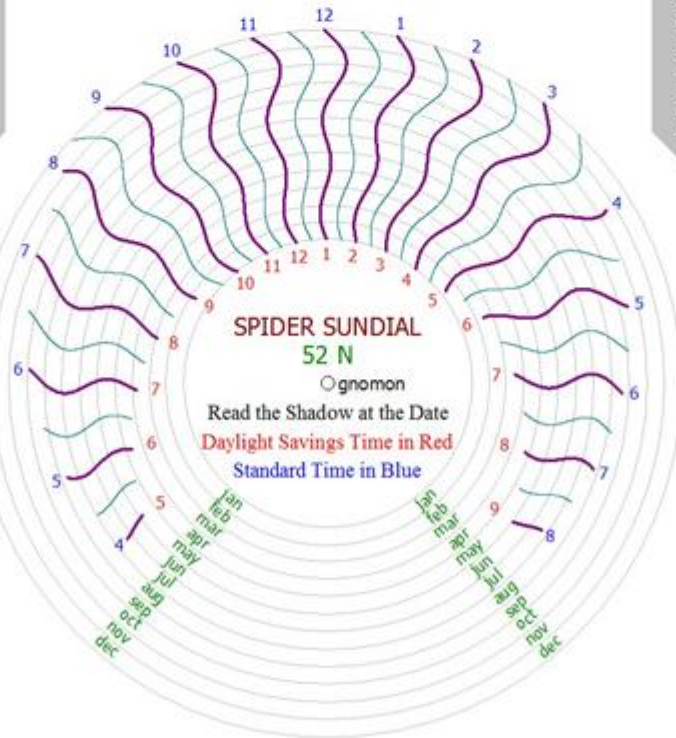
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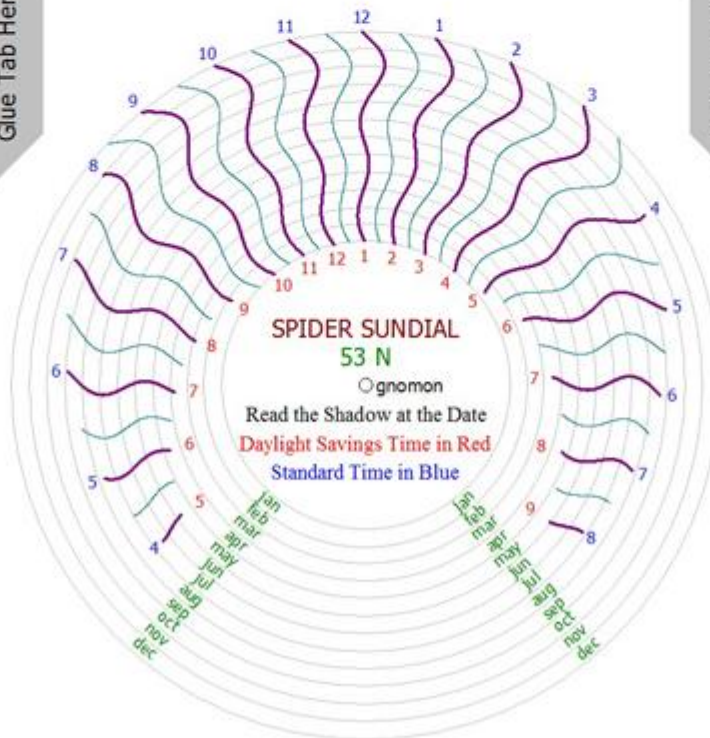
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