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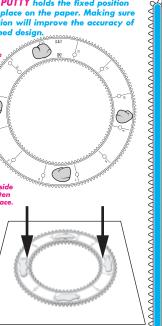
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The reusable SPIROGRAPH® PUTTY holds the fixed position Spirograph® pieces securely in place on the paper. Making sure that the piece is locked in position will improve the accuracy of the finished design.

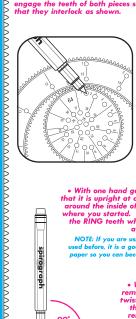
Begin by tearing off a piece of SPIROGRAPH® PUTTY about the size of a pea and roll it into a ball between your fingers.

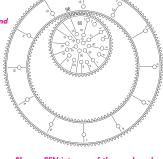
> Press four balls of PUTTY firmly onto the underside of the RING and flatten them against the surface.

 Position and place the RING on the paper with the PUTTY pieces facing down. Press the RING firmly down onto the paper and twist slightly to help the PUTTY stick securely to the paper. Make sure that the edges of the RING are making contact with the paper surface so that the WHEELS will not slide underneath the RING.



 Place a WHEEL inside the RING and engage the teeth of both pieces so that they interlock as shown.





• Place a PEN into one of the numbered holes on the WHEEL. NOTE: When using your pens for the first time, scribble for a few moments on a piece of scrap paper in order to get the ink flowing.

• With one hand gently holding the RING, position your pen so that it is upright at a 90 degree angle. Move the WHEEL carefully around the inside of the RING and continue until your line meets where you started. Always keep the WHEEL teeth in contact with the RING teeth while drawing and move the WHEEL slowly to avoid slipping of the gears.

NOTE: If you are using a WHEEL or WHEEL HOLE that you have never used before, it is a good idea to do a few test designs on a piece of scrap paper so you can become comfortable with the movement of the pieces.

> · When you are finished with your design, remove the RING from your paper by gently twisting to release. Do not pull straight up as this might tear the paper. Gather up the remaining PUTTY and store for future use.

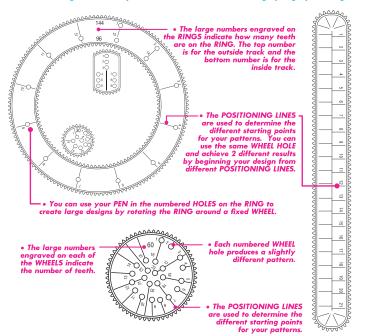
NOTE: To protect furniture, always place your paper on a placemat or other protective surface before creating your Spirograph design. Ball point pens can leave marks or indentations on some surfaces.

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### **What the Markings Mean**

• The markings on each Spirograph® piece have different meanings. Understanding these meanings will allow you to create even more amazing Spirograph® Designs.



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• Below is a simple example of how using the same wheel on a different track can result in drastically different Spirograph® Patterns.

> Both of these designs were created using hole #1 of WHEEL No. 45



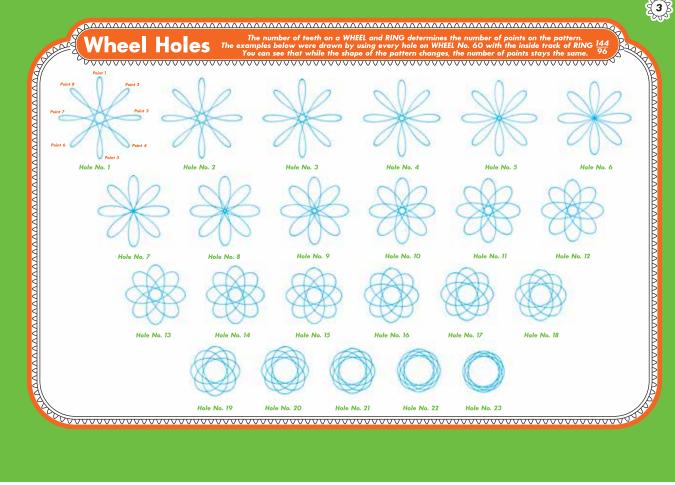
Using the inner track of the 144 RING



Using the outer track of the 144 RING



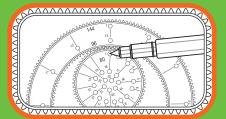
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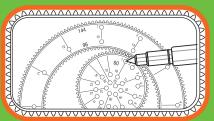


## Designs using the Positioning Lines

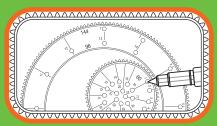
By using the POSITIONING LINES to begin your design at different starting points along the RING, you can create more complex patterns. The design below uses HOLE No. 1 on WHEEL No. 60 on the inside track of RING 144, using a different color pen for each different starting position.



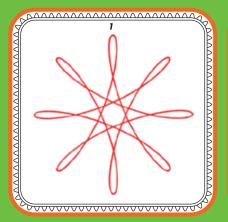
Hole No. 1 in Starting Position No. 1 on the RING.

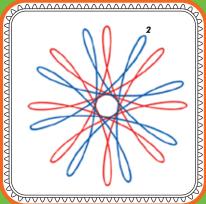


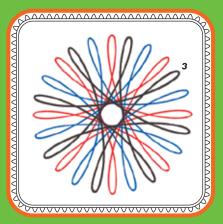
HOLE No. 1 in Starting Position No. 2 on the RING.



HOLE No. 1 in Starting Position No. 3 on the RING.





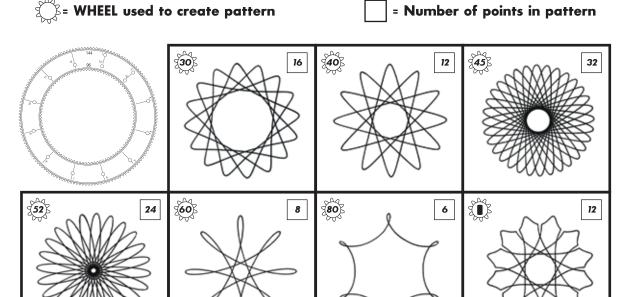




# Spirograph® Basic Pattern Guide

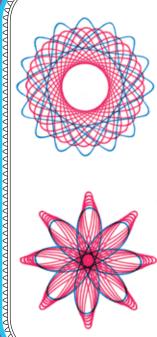
The boxes below show the basic pattern produced by each of the different WHEELS.

The patterns below were all drawn on the inside track of the RING with the pen in Hole No. 1 of each WHEEL.



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#### Designs with Wheels Inside Rings PARARARARARA

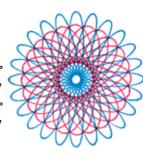


Place Wheel No. 30 so that Hole 2 lines up with POSITIONING LINE No. 1 on the RING.

With the Blue Pen in Hole 2, draw the first pattern until the line meets where it began.

Place Wheel No. 45 so that Hole 7 lines up with POSITIONING LINE No. 1 on the RING.

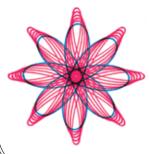
With the Red Pen in Hole 7, draw the next pattern until the line meets where it began.



Place WHEEL No. 52 so that Hole 1 lines up with POSITIONING LINE No. 1 on the RING.

With the Blue Pen in Hole 1, draw the first pattern until the line meets where it began.

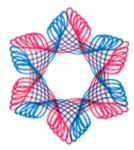
Align Hole 10 with POSITIONING LINE No. 1 on the RING and use the Red Pen in Hole 10 to complete the pattern.



Place WHEEL No. 60 so that Hole 1 lines up with POSITIONING LINE No. 1 on the RING.

With the Red Pen in Hole 1, draw the first pattern until the line meets where it began. Use the Red Pen to draw four additional patterns with Holes 3, 5, 7 and 9, beginning each pattern at POSITIONING LINE No. 1 on the RING.

Alian Hole 11 with POSITIONING LINE No. 1 on the RING and draw the last pattern with the Blue Pen in Hole 11.



Place WHEEL No. 80 so that Hole 1 lines up with POSITIONING LINE No. 1 on the RING.

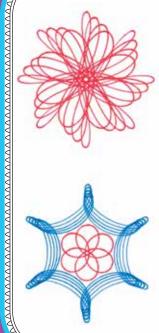
With the Red Pen in Hole 1, draw a pattern until the line meets where it began. Align Hole 3 with the spot where the last pattern ended and move the WHEEL one tooth to the right on the RING. Use the Red Pen in Hole 3 to draw a pattern and repeat these steps for Holes 5, 7, 9 and 11.

Flip the Wheel over so that the numbers are facing down and alian Hole 3 one tooth to the left of POSITIONING LINE No 1. Use the Blue Pen in Hole 3 to draw a pattern. Alian Hole 5 with the spot where the last pattern ended. move the WHEEL one tooth to the left and draw a pattern. Repeat for Holes 7, 9 and 11.



## ^^^^^^^^^ Designs with Wheels Inside Rings

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144 • 60 • HOLES: 1-4-8-12

Place Wheel No. 60 so that Hole 1 lines up with POSITIONING LINE No. 1 on the RING.

With the Red Pen in Hole 1, draw the first pattern until the line meets where it began.

Alian Hole 4 with the spot where the last pattern ended and move the WHEEL two teeth to the right on the RING. Draw a pattern with the Red Pen in Hole 4.

Repeat the same steps for Holes 8 and 12.

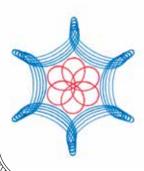


Place WHEEL No. 52 so that Hole 1 lines up with POSITIONING LINE No. 1 on the RING.

With the Blue Pen in Hole 1, draw the first pattern until the line meets where it began.

Alian Hole 4 with POSITIONING LINE No. 1 on the RING and use the Blue Pen in Hole 4 to draw the second pattern.

Alian Hole 8 with POSITIONING LINE No. 1 on the RING and use the Blue Pen in Hole 8 to complete the pattern.

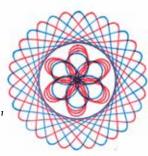


HOLES: 1-3-5-7-9-28

Place WHEEL No. 80 so that Hole 1 lines up with POSITIONING LINE No. 1 on the RING

With the Blue Pen in Hole 1, draw the first pattern until the line meets where it began. Use the Blue Pen to draw four additional patterns with Holes 3, 5, 7 and 9, beginning each pattern at POSITIONING LINE No. 1 on the RING

Align Hole 28 with POSITIONING LINE No. 1 on the RING and draw the last pattern with the Red Pen in Hole 28.



HOLES: 22-24-26-28

Place Wheel No. 30 so that Hole 2 lines up with POSITIONING LINE No. 1 on the RING.

With the Blue Pen in Hole 2, draw the first pattern until the line meets where it began.

Place Wheel No. 30 so that Hole 2 lines up with POSITIONING LINE No. 1 on the RING. then move the WHEEL two teeth to the right. Draw a pattern with the Red Pen in Hole 2.

Place Wheel No. 80 so that Hole 22 lines up with POSITIONING LINE No. 1 on the RING. Use WHEEL No. 80 to draw three patterns with the Red Pen in Holes 22, 24 and 26, and the Blue Pen in Hole 28, beginning each pattern at POSITIONING LINE No. 1 on the RING.



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### Designs Using Art Markers *ᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐᢐ*



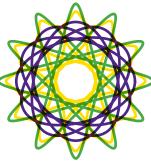
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• HOLES: 5-5-5-14-14-14

Place Wheel No. 80 so that Hole 5 lines up with POSITIONING LINE No. 1 on the RING.

Draw three patterns using an Orange Marker in Hole 5, each time moving the WHEEL three teeth to the right on the RING from the ending position of the previous pattern.

Align Hole 14 with the spot where the last pattern ended and move the WHEEL three teeth to the right on the RING. Draw three patterns with a Green Marker in Hole 14, each time moving the WHEEL three teeth to the right on the RING from the ending position of the previous pattern. Repeat this step to draw two patterns using a Black Marker in Hole 22.



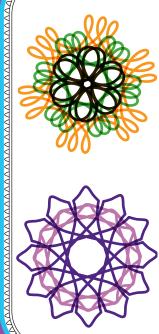
■ HOLES: 1-11

Place the BAR so that Hole 1 lines up with POSITIONING LINE No. 1 on the RING.

With a Yellow Marker in Hole 1, draw a pattern until the line meets where it began.

Place WHEEL No. 40 so that Hole 1 lines up with POSITIONING LINE No. 1 on the RING. With a Green Marker in Hole 1, draw a pattern until the line meets where it began.

Repeat the previous step using a Purple Marker in Hole 11.



144 • 1-3 • HOLES: 1-3

Place the BAR so that Hole 1 lines up with POSITIONING LINE No. 1 on the RING. With a Purple Marker in Hole 1, draw a

pattern until the line meets where it began Align Hole 3 with POSITIONING LINE No. 1 on the RING and draw a pattern with the Magenta Marker in Hole 3.



144 • 60 • HOLES: 3-3-3-15-21

Place WHEEL No. 60 so that Hole 3 lines up with POSITIONING LINE No. 1 on the RING.

With a Yellow Marker in Hole 3, draw a pattern until the line meets where it began.

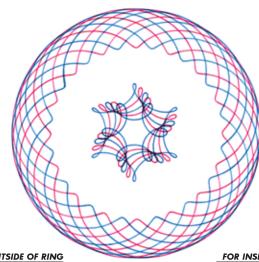
Alian Hole 3 with the spot where the last pattern ended and move the WHEEL three teeth to the right on the RING. Draw a pattern with a Yellow Marker in Hole 3. Repeat once more, moving three teeth to the right.

Place WHFFI No. 60 so that Hole 15 lines up with POSITIONING LINE No. 1 on the RING. With an Orange Marker in Hole 15, draw a pattern until the line meets where it began.

Repeat the previous step using a Black Marker in Hole 21.



# Big Designs Using the Orbital Big Designs Using the Outside of Rings



FOR OUTSIDE OF RING

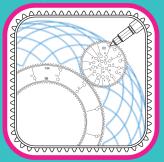
Secure the RING to the paper with SPIROGRAPH PUTTY and alian Hole 1 on WHEEL No. 45 with POSITIONING LINE No. 1 on the RING. Use the Red Pen in Hole I to draw a pattern until the line comes to where it began. Move the WHEEL 4 teeth to the right and use the Blue Pen in Hole 1 to draw a pattern until the lines comes to where it began.

FOR INSIDE OF RING

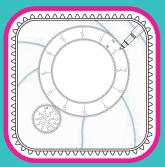
HOLES: 1-4-8-12-16

Leave the RING locked in position on the paper and align Hole 1 on WHEEL 80 with POSITIONING LINE No. I on the inside track of the RING. Draw a pattern with the Blue Pen in Hole 1. Alian Hole 4 with the spot where the pattern ended and move the wheel 2 teeth to the right. Use the Red Pen in Hole 4 to draw a pattern. Repeat the same steps for Holes 8, 12 and 16.

• Below are two ways to draw jumbo sized designs.



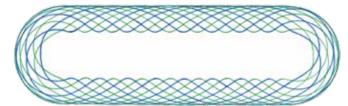
• Secure a RING to the paper with the SPIROGRAPH® PUTTY and revolve a WHEEL around the outside track as shown above.



• Secure a WHEEL to the paper with the SPIROGRAPH® PUTTY and revolve a RING around the outside of the wheel as shown above.

# Designs Using the Rack

 Secure the RACK to the paper with SPIROGRAPH® PUTTY and rotate WHEELS and RINGS around the outside to create unique shaped Spirograph® designs.



Using Hole 5 on WHEEL No. 40, draw a Blue pattern starting at POSITIONING LINE 1 on the RACK. Then use the Green Pen in Hole 5 to draw a pattern starting at POSITIONING LINE 5.



Note: The small corners of the RACK can be tricky, so be sure to keep the teeth engaged securely as you rotate the WHEELS.





SPIROGRAPH® PUTTY

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BAR



RACK





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#### **2 DESIGN PENS**

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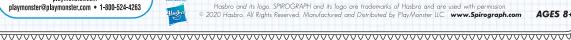
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- To avoid damage/indentation on wood surfaces, place a protective layer such as a placemat or a pad of paper. underneath your drawing area. Spirograph® pen inks may stain some surfaces and fabrics
- Spirograph® Putty and Spirograph® pen inks have been evaluated and approved by a board certified toxicologist.
- Spirograph® Putty can be removed from most surfaces and is also reusable. It is designed to be used as intended with paper and the included Spirograph® components, and should be stored properly in the case between uses. Avoid contact with wallpaper, delicate surfaces, walls painted with flat paint and carpet.
- The pen holes in the Spirograph® pieces have been sized to fit most standard pens available on the market.  ${f T}$



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