

40 Weeks of Math Challenges

Week 3



These visual math challenges have been created to intrigue and inspire your children. They are designed to be hands on, open-ended inquiries, to challenge them to think deeply about the world around them.

Each week a new set will be released with four levels.

- Preschool
- Years 1/2 (approx. age 6-8)
- Year 3/4 (approx ages 8-10)
- Year 5/6 (approx. ages 10-12)

I hope you enjoy exploring the ideas with your children! The challenges don't require any special resources, however your children will need a 'Math Journal' to record their discoveries. Any notebook will work, but if you can, try to encourage them to use a Grid book.

You are welcome to freely print these cards for your family but please respect our creative copyright and link back to the original file on our web page to share with others. Thanks, Jo

Spiral

Definition:

Is a special curve which starts at a point and gradually gets further from that point.

1. Look at the picture, what do you notice?
2. Have fun drawing spirals in your math journal.



Challenge 3

1/2

Spiral

Definition:

Is a special curve which starts at a point and gradually gets further from that point.

1. Look at the picture, what do you notice?
2. Go on a snail hunt. When you find one take time to notice it's shell.
3. Draw a picture of the snail in your math journal. Practice drawing spiral curves in your journal.
4. A circle is a closed curve. Why do you think we describe a spiral as an open curve?

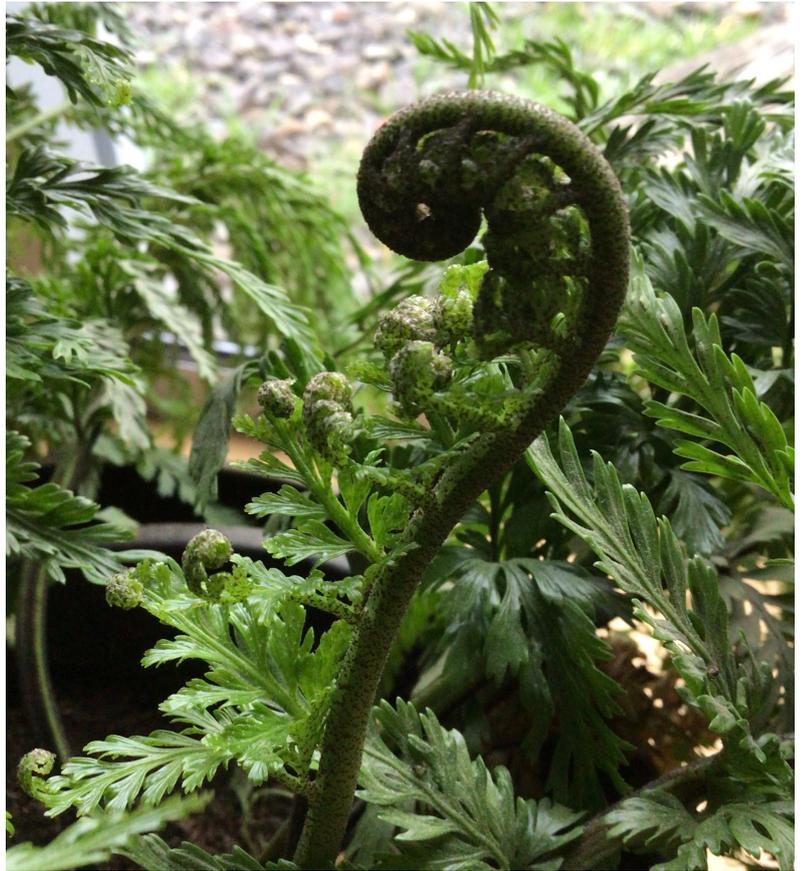


Spiral

Definition:

Is a special curve which starts at a point and gradually gets further from that point.

1. Look at the picture, what do you notice?
2. Study fern fronds. Take time to sketch them. What do you notice? What do you wonder? What do they remind you of? Write your thoughts in your math journal.
3. A circle is a closed curve. Why do you think we call a spiral an open curve?



Challenge 3

5/6

Spiral

Definition:

Is a special curve which starts at a point and gradually gets further from that point.

1. Look at the picture, what do you notice?
2. The flowers of some plants grow in a spiral pattern. Take time to go outside and see if you can find spiral patterns in plants.
3. Draw or take photos of them to include in your math journal.

