

# 40 Weeks of Math Challenges

## Week 12



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

Find me on Instagram @jo\_mathinnature and [Nature Study Australia](#)

# Shapes

Definition:

Can be described by their outline. The number of sides they have and size of their angles.

1. What shape can you see?

A circle is a round shaped figure that has no corners or edges.

2. Go on a circle hunt! How many can you find?
3. Draw some circles in your math journal.



## Challenge 12

1/2

# Shapes

Definition:

Can be described by their outline. The number of sides they have and size of their angles.

1. What shapes can you see?
2. Go outside and look around you, what shapes can you see?
3. Draw some of the shapes that you see in your math journal.



# Shapes

Definition:

Can be described by their outline. The number of sides they have and size of their angles.

1. How would you describe the shape of this Ribbed Case Moth? Using words like 'edge' and 'angles' write a description of this shape.
2. Find another interesting shape, describe it to someone else and see if they can guess what it is.



## Challenge 12

5/6

# Shapes

Definition:

Can be described by their outline. The number of sides they have and size of their angles.

1. Look at the picture, what do you notice?
2. Can you describe the shape of this Sheoak fruit? Using words like 'edge', 'angle', 'outline' give a detailed description of the cone like fruit.
3. Draw a Sheoak fruit and label the angles you can see. Also label the overall shape.
4. Choose another fruit, cone or seed pod and describe it's shape in your math journal.
5. Would you agree that natural objects have more curves than sharpe edges? Think about why this might be.

