

40 Weeks of Math Challenges

Week 8



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.

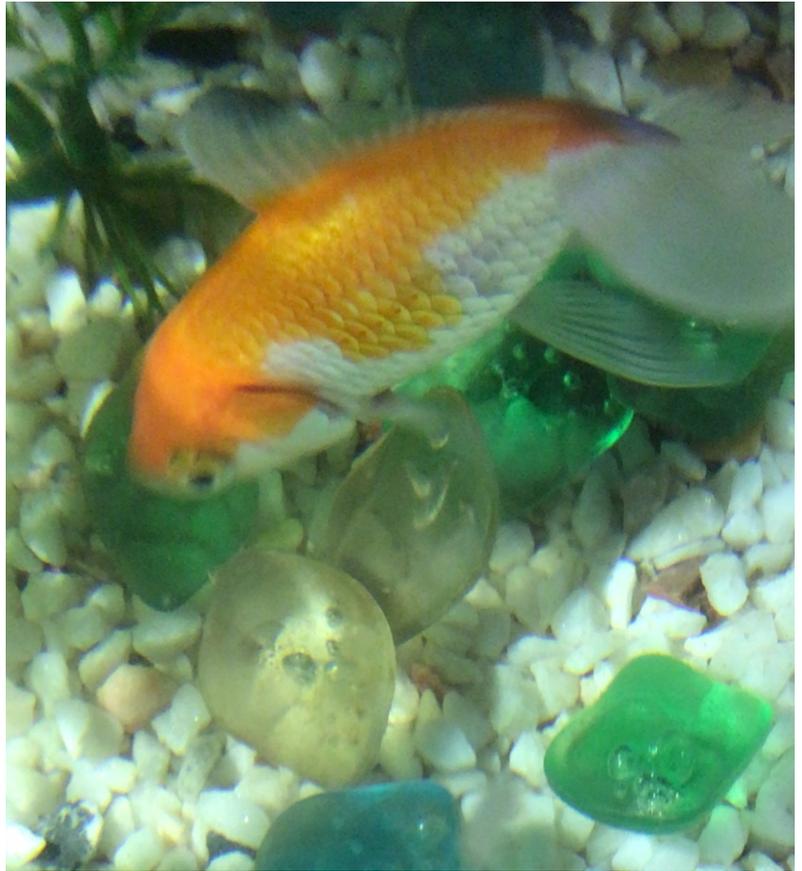
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Tessellation

Definition:

Occurs when a surface is covered in a pattern of shapes that have no gaps and no overlap.

1. Look at the picture, what do you notice?
2. Can you see the scales on the fish? What do you notice about them?
3. Use lego or blocks to make a tessellation.



Challenge 8

1/2

Tessellation

Definition:

Occurs when a surface is covered in a pattern of shapes that have no gaps and no overlap.

1. Look at the picture, what do you notice?
2. Can you see the scales on the skink? What do you notice about them?
3. Draw a lizard and cover it with scales.

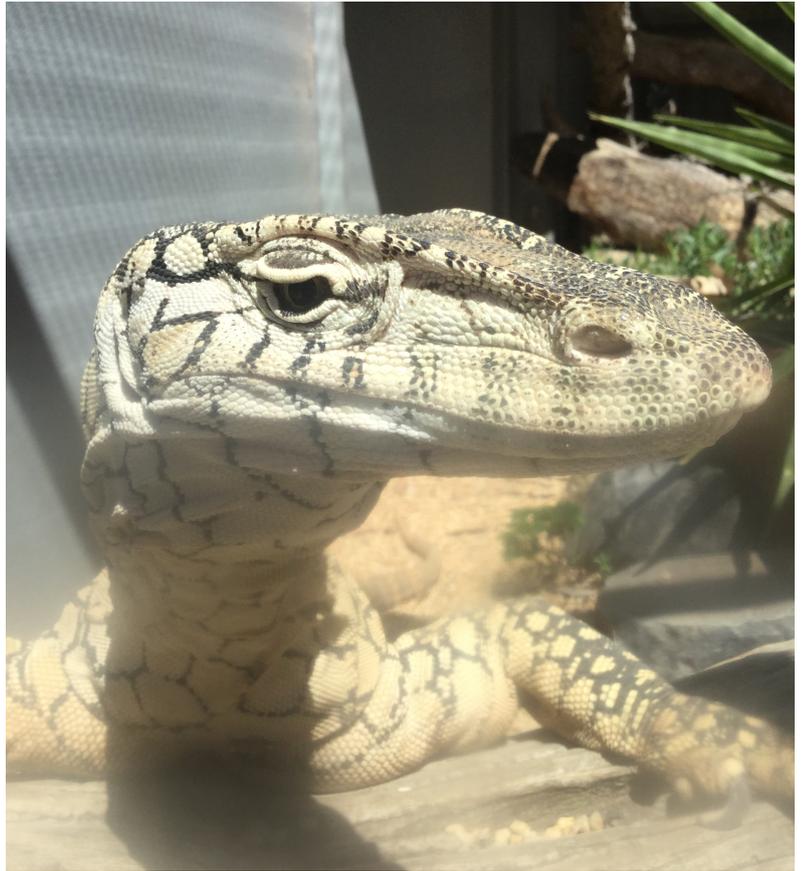


Tessellation

Definition:

Occurs when a surface is covered in a pattern of shapes that have no gaps and no overlap.

1. Look carefully at the skin of this lizard. What do you notice?
2. The individual scales tessellate but look closely and you will see that the overall colour pattern also tessellates.
3. Draw a tessellated pattern in your math journal.



Tessellation

Definition:

Occurs when a surface is covered in a pattern of shapes that have no gaps and no overlap.

1. Look carefully at the python's scaled skin, what do you notice?
2. Describe the shapes you see.
3. Create your own tessellated surface with irregular polygons.
4. Share a photo of what you create.

