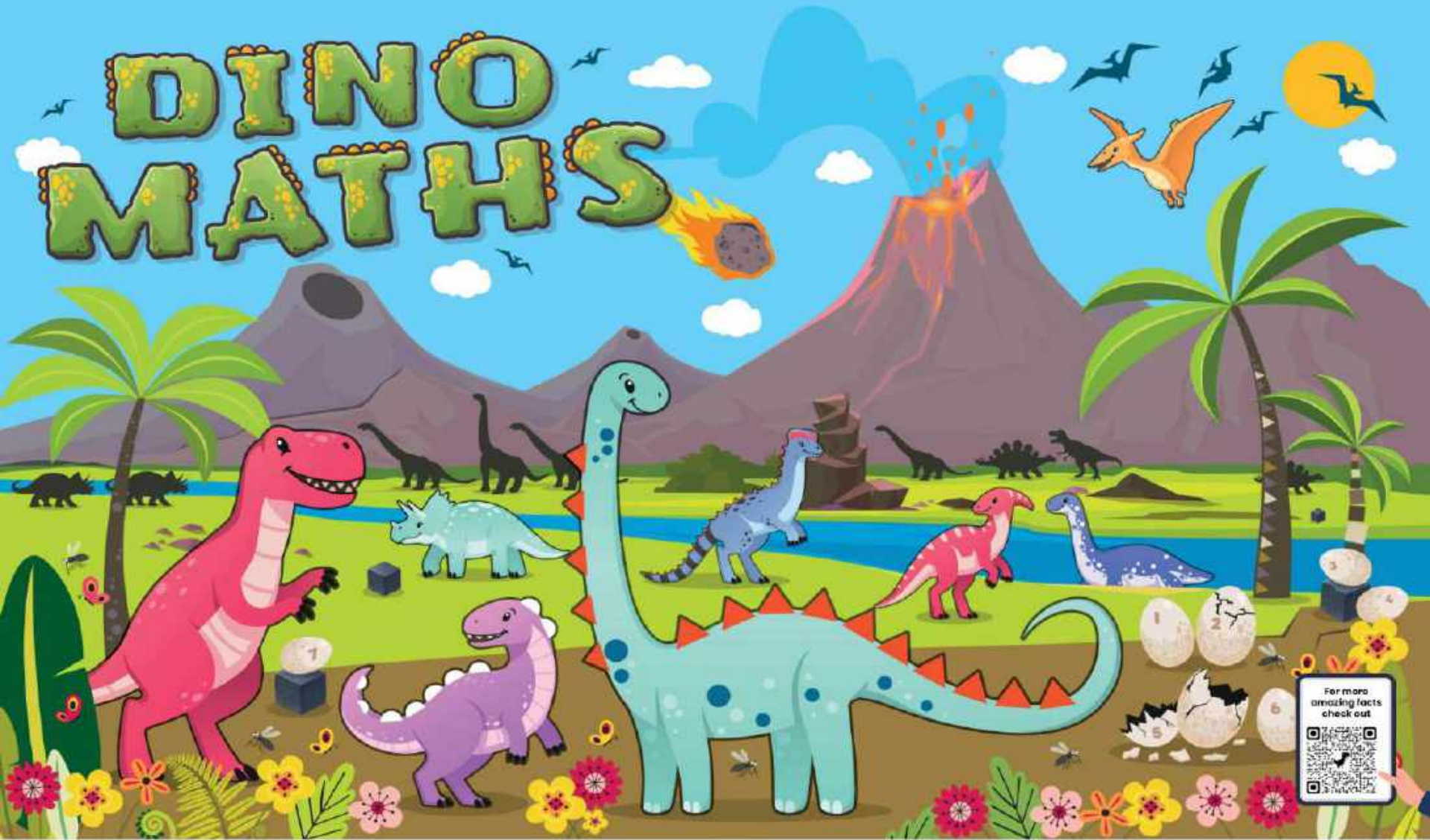


DINO MATHS



14-22 October 2023
f i o #IUUseMaths
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Maths Week Ireland 2023



DINO MATHS

Here you have activities related to our dinosaur posters. As the teacher you know your pupils best. Suggestions can be adapted to suit older or younger children, EAL learners, pupils of differing abilities and interests, group sizes etc. The suggestions may be useful for volunteers working with small groups.



The activities cover topics like

- 1) Identifying objects
- 2) Numbers & counting
- 3) Spatial Awareness and positional language
- 4) Number Stories
- 5) Creativity

As the teacher, you know the pupils best and suggestions can be adapted to suit your class. We would also like to hear about the activities you do in your classrooms. Please drop a description of the activity and how it went to our email, mathsweek@wit.ie.

Some learning points (impossible to list them all!)

- The learning points revolve around identifying objects, numbers, and spatial elements, fostering vocabulary development, sentence structure, thinking skills, turn-taking, and memory. Additionally, they include recognising numbers, counting, understanding odd and even numbers, identifying objects by colour, and developing number sequencing skills. Spatial awareness involves counting, size description, and positional relationships. Finally, number-stories and creativity are encouraged for an in-depth understanding of concepts.

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Introduction:

A Teachers Guide:

The following are the dinosaurs in the poster from left to right, starting from the back row and moving to the front row:

1. Pteranodon (Flying)
2. Triceratops
3. Brachiosaurus
4. Plesiosaurus
5. Parasaurolophus
6. Lambeosaurus
7. Tyrannosaurus
8. Velociraptor
9. Stegosaurus(background)

[Find fun facts about these dinosaurs here](#)

Other objects available to identify in the poster are:

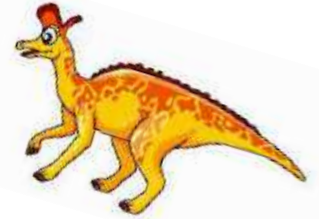
Clouds, Volcanoes, Trees, Shapes on Trees, Eggs, Numbers on Eggs, Cubes, Mosquitoes, Butterflies, and Flowers.



PTERANODON



TRICERATOPS



LAMBEOSAURUS



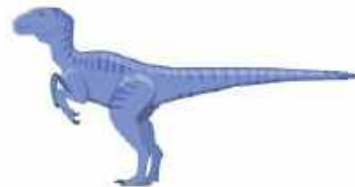
PARASAUROLOPHUS



PLESIOSAURUS



TYRANNOSAURUS



VELOCIRAPTOR



BRACHIOSAURUS



STEGOSAURUS

DINO MATHS

Identifying Objects

Materials needed: counters, maths week posters, pencils

- Let's have a look at the poster and think about what we see
- Allow 2-3 minutes for children to look at the poster individually. If necessary, remind them, 'Thinking is quiet; first, let's think about what we see, then we'll share'.
- In pairs, take turns telling your partner what you see in the picture. Try not to repeat something your partner has said.
- Each time you tell something new that you see, take a counter from the pile in the centre and add it to your (shared) tower. Each partner uses a different coloured cube. If you cannot see anything new, say 'Pass', and your partner continues.
- During this time, the teacher should try to encourage children who are stuck by thinking aloud, 'I can see something behind the ...', 'I see some shapes.' and not by prompts. Group all the children with their towers.
- At a later stage, First Class children, if reasonably proficient writers, might be asked to list what they see in writing individually or as pairs, with each partner using a different coloured pencil.

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Numbers & Counting

Look carefully at the poster

Can you see these items? How many of each can you see?

- | | |
|--|---|
| <ul style="list-style-type: none">- How many volcanoes are there? | <ul style="list-style-type: none">- How many Dinosaurs are there? How many are flying? |
| <ul style="list-style-type: none">- How many trees are there? Can you count the number of Triangles on the shoot of the tree? | <ul style="list-style-type: none">- How many flowers are present? Identify the number of yellow flowers. |
| <ul style="list-style-type: none">- How many cubes do you see on the floor? | <ul style="list-style-type: none">- How many eggs are present? Do you see any numbers on them? |
| <ul style="list-style-type: none">- How many circles are there in the poster? (large number counting) | <ul style="list-style-type: none">- Find the odd numbers.- Find the even numbers. |
| <ul style="list-style-type: none">- Show me the number that comes before 5. What is it?- Show me the number that comes between 3 and 5. | <ul style="list-style-type: none">- Show me the number that is two less than 4. What is it?- Show me the number that is three more than 1. What is it? |

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Spatial Awareness – Positional Language

Look carefully at the poster.

- Can you see any cubes? Where are they placed? Where are the clouds placed?
- Number the dinosaurs from left to right, starting at '1' and then arrange them according to (ascending) shortest to tallest and descending (tallest to shortest).
- Compare the sizes of different dinosaurs and use words like bigger, smaller, taller, shorter, etc.
- Identify dinosaurs that are near or far from the volcano. Count the number of dinosaurs closer and those further away (Identify the shapes and colours of different dinosaurs in the image).
- Identify the dinosaurs that are above or below the river.
- Identify if the dinosaur is looking towards the left or right.
- What can you see in/on/in front of/beside/next to/behind the _____ ?

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DINO

Number stories

Use your counters to help you solve these problems.

Then, work with a partner to make up questions for each other to answer:

- I can see 4 dinosaurs with spikes and horns and 3 more in the shadows. How many are there altogether?
- 3 dinosaurs are in front of the tree and 3 behind the tree. There is also one dinosaur in the river. How many in all?
- Some dinosaurs walk on two feet, whereas others walk on all four. Can you add how many dinosaurs roam on two feet and how many on four? Can you now tell the total number of legs in the poster?
- How many dinosaurs with wings are there in total? There are eight in the sky. Four are behind the sun, and one is in front of it. Where are the rest positioned? How many dinosaurs with wings can you see clearly?
- If you have six dinosaurs on land and two go swimming in the river, how many Dinosaurs are still on the ground?
- For every four dinosaurs, we have one hatched baby dinosaur. So, how many Adult and baby dinosaurs do we have in total?

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Construction/ Art and Craft / Creativity

Can you construct this scene at home or at school?

- It does not need to be exactly the same, but it should have the main elements. Perhaps you have ideas of things that can be added.
- Work by yourself or with a friend or group.
- What will you use as the background? Perhaps a box to make a diorama or a page to make a collage or picture.
- Create your own dinosaur (draw) using common shapes and colours. For example, you can use a circle for the head, a rectangle for the body, triangles for the spikes, etc.
- Then, name your dinosaur and describe its features
What can you use to make it? Can you make different sizes, types and colours of dinosaurs?

Can you tell a story about the Dinosaur and other creatures in your scene?

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Some stories you may like

[Starfall Dinosaurs](#) - A non-fiction book about dinosaurs by Stephen Schutz, Illustrated by Brandi Chase.

[Ten Minutes to Bedtime Little Dinosaur](#) - A story focusing on counting down and time by Rhiannon Fielding and Chris Chattererton.

[Ten Little Dinosaurs](#) - A story used for understanding counting down numbers.

[Crunch, Munch, Dinosaur Lunch](#) - A story that could be used for size comparison and vocabulary.

[Harry and the Bucketful of Dinosaurs](#) - A fun story about a boy and his dinosaurs

[Barney & Friends](#) - Numbers. An Episode on numbers and counting.



Dinosaur rhymes

Dino Math game - Basic Math Learning games

10 little dinosaurs – Number counting and identification song

Dinosaur rap - Vocabulary

Here we go digging for dinosaur bones - MulberryBush Tune

Dinosaurs – Wheels of the Bus tune.

By Kanchi Gupta

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