

Casino MarinoEducation & LearningExplore, Discover, Investigate & Learn

Primary School Maths Curriculum: Geometry / Symmetry strands / Junior Infants – 2nd Class

Shape Search & Storytelling Tour

The Casino Marino building is full of exciting shapes and symbols for us to find! Remember to look up, down, and all around you. See if you can find patterns of circles, squares, rectangles and triangles. There are even triangle shapes inside circle shapes! Remember, to keep a lookout for lions, snakes, fish and dragons...let's count how many animals are in the Casino Marino!

Kitchen:

Lord Charlemont's name was James Caulfeild. When James was eighteen years old, (over 250 years ago!), he travelled to France, Italy, Greece and Egypt to see all the wonders of the world! This journey to learn about art, history, architecture and maths was called the Grand Tour. James brought back paintings, statues, books and more importantly IDEAS from his Grand Tour to share with us today.

The man who designed and planned the Casino Marino was Sir William Chambers, he is the architect of the building. In his first job before he learned about architecture, William sailed all throughout the Far East as a merchant selling tea, silk and spices! In China, he drew the stars in the night sky and studied very old Chinese maps of Astronomy (star patterns in the night sky). He learned about geometry and symmetry, just as you are doing in school and in the Casino Marino today.

Lord Charlemont and Sir William Chambers shared their ideas and memories of everything they had learned on their travels, and used this knowledge to design and build the Casino Marino. So now as we start OUR journey through the building, we can search for the circles, squares, rectangles and triangles they have hidden in the floors, ceilings, walls and windows!

Lord Charlemont also saw lots of exotic animals on his travels, so don't forget to find and count all the snakes, dolphins, dragons and rams-heads in the rooms! When we're finished we can wave Goodbye to the special lions, mermaid and Triton on the outside of the building!

Oh, keep an ear out for any squeaking as we go through the building, as the MouseMaster's White Mice just love to tell the story of their Grand Tour and how they made the Casino in Marino their own little home! *Hold on tight to you cheese sandwiches!!!*

Let's start our Shape Search!!!

Vestibule (entrance hall):

We have lots of shapes to find and count in the hall, some shapes are big, medium and small.

TIP: Remember to look up, down and all around you!

1. How many circles can you find? Let's count...



Up on the ceiling?
Down on the floor?
Around you on the walls?

2. There are three sizes of circle, where is the....



BIG circle?

Medium circle?

Small circle?

3. How many rectangles can you count in the....



Doors?
Floor?
Window?

The window has shapes within a shape...small rectangles in a big rectangle.

Look out for this trick in the next room, and see if you can find it!

4. This shape has 4 equal sides, what is it called?

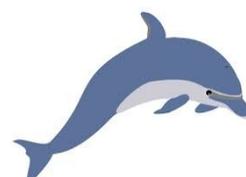


5. We can count 6 rhombus shapes in the hall, where are they?

6. A symmetrical shape has two halves that look like a mirror image of each other or **MATCH**, draw the matching half of this symmetrical shape, the rhombus.

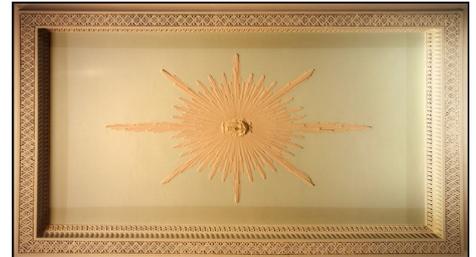


Remember, the exotic animals Lord Charlemont saw on his Grand Tour, where is the 'Dolphin' head in the hall? How many snakes are in the ceiling?

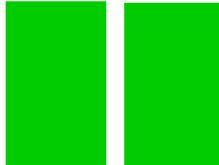


Saloon:

1. Can you find the rectangle with Apollo, the Sun God looking over you?



2. There are 2 hidden rectangles in the walls of the Saloon, can you find them and what do you think they are used for?



3. How many circles are in the pattern on the floor?



Remember the trick of shapes inside another shape? Look out for this trick in the floor NOW!

4. How many triangles are hidden inside the circles on the floor?

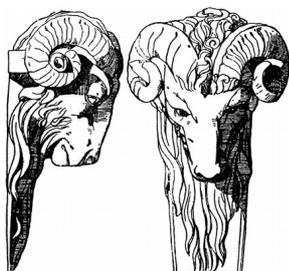


5. Are the triangles hidden inside 2 or 3 circles? *Look carefully and think hard before you count!*



6. This shape is called a hexagram, is it symmetrical or asymmetrical?

Remember to find and count 6 Ram's Heads and 4 Griffins (dragons) in the Saloon...TIP: Look Up and down and all around you!!!



China Closet:

The China Closet is a room full of symmetry. Patterns on the floor are mirrored on the ceiling, just the way you see your reflection when you look in a mirror or a puddle of water!

1. There is a shape in this room we have not found yet in other rooms, can you find it?



2. How many oval shapes can you find on the...

Floor?
Ceiling?
Walls?

3. Can you match or find a reflection of symmetry, of the pattern on the floor?

4. How many rectangles can you count?



Look Down to find another trick! Find the symmetrical shapes inside the rectangles!!

5. What is the name of this equal-sided triangle shape?



6. How many shapes are there on the walls of the China Closet decoration?



Search out the trick window, this time it's not a shape in a shape, it's a small window in a big window!!

Can you find a woolly animal somewhere in the China Closet? Take a peek above the fireplace!!

Now let's go into a room with a very special name...

The Zodiac Room

Zodiac Room:

This room was Lord Charlemont's little library. He collected books on art, literature, music, history and poetry from all over the world! We think this room is so special as it is full of beautiful decorations and symbols that tell us a story of the stars, the moon and the sky!

1. The oval shape we saw as a mirror in the Saloon, is also in the Zodiac Room, where can you see it?



Remember to look up, down and all around you!!!

The Dome is an oval shape like an egg...not round like a coin. This means it creates perspective, so when we look up, it tricks us into thinking the dome is deeper than it really is!



We think the beautiful painting in the dome was a dark blue sky with twinkling white stars? The pattern of stars in the night sky could have been Lord Charlemont's birthday sign or Zodiac symbol..... So the dome symbolises Astronomy!



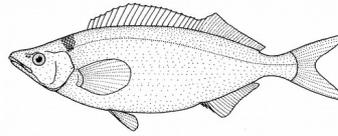
Do you know the day, date and year of your Birthday? Can you see all the star signs of the Zodiac in the decorated plasterwork of the dome's frieze? Look for your star sign! These signs symbolise Astrology!



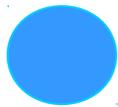
Animals we see in Zodiac Room are created in our imaginations or remembered from myths and legends! *If you could create a mythical animal, what would it look like?*

Let's count the fish in the Zodiac!

Leo the Lion is roaring, can you point to him and roar back?!



Well Done!! We've searched and found all these shapes!



*We've seen exotic animals in the Casino Marino
..but where are the White Mice hiding?*



*Can you hear squeaking...let's follow the trail to find
the MouseMaster and hear the story of the
Casino Tails of Marino Mice!!*

Remember, hide your cheese sandwiches!!



