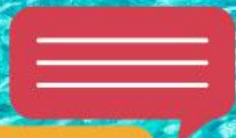


# CardEd

## Challenge #6



WHITE																	
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81	<table border="1"><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>																



## Letter Zone

O is for ocean, how many oceans are there?

Can you name the oceans?

What is the largest ocean?

Which ocean is closest to where you live?

For what part of their body are millions of sharks killed each year?

How many million tons of plastic are dumped in our oceans every year? Is it:  
(a) 4 (b) 8 (c) 16 (d) 32 million tons?

In which US city would you be if you were driving down Ocean Drive in South Beach?



## Letter Zone

O is for ocean, how many oceans are there? 5

Can you name the oceans? Pacific, Atlantic, Indian, Southern & Arctic

What is the largest ocean? Pacific

Which ocean is closest to where you live?

For what part of their body are millions of sharks killed each year? Fins

How many million tons of plastic are dumped in our oceans every year? Is it:  
(a) 4 (b) 8 (c) 16 (d) 32 million tons?

In which US city would you be if you were driving down Ocean Drive in South Beach?  
Miami

## Symbol Zone

**What symbol is shown on this card?**



**Investigate the sizes of the world's oceans. Use this symbol to put the ocean names in order according to size.**

**Will you need to begin with the largest or the smallest ocean?**

**Now substitute the ocean names for their size in figures.**

**What measurement is used when giving the size of an ocean?**



## Symbol Zone

What symbol is shown on this card? Less than

Investigate the sizes of the world's oceans. Use this symbol to put the ocean names in order according to size.

Arctic < Southern < Indian < Atlantic < Pacific

Will you need to begin with the largest or the smallest ocean? smallest

Now substitute the ocean names for their size in figures.

14.06 million km<sup>2</sup> < 20.33 million km<sup>2</sup> <  
70.56 million km<sup>2</sup> < 106.5 million km<sup>2</sup> <  
165.2 million km<sup>2</sup>

What measurement is used when giving the size of an ocean? million kilometres squared

## Number Zone

What is 10 more and 10 less than 81?

Other than 1, what number between 1 & 10 can you count by to land on 81?

What are the factors of 81? Add these up.

What is 81 more and less than 674?

I'm in a European country and I spend NOK Kr 81, where am I?

The first London marathon was held in 1981. How many years ago was that?

Find the difference between 81 and 81 written backwards.

Ultimate Challenge: Add up the area of all the world's oceans.



## Number Zone

What is 10 more and 10 less than 81? 71/91

Other than 1, what number between 1 & 10 can you count by to land on 81? 9

What are the factors of 81? Add these up.  
 $1 + 3 + 9 + 27 + 81 = 121$

What is 81 more and less than 674? 755/593

I'm in a European country and I spend NOK Kr 81, where am I? Norway

The first London marathon was held in 1981. How many years ago was that? 39

Find the difference between 81 and 81 written backwards.  $81 - 18 = 63$

Ultimate Challenge: Ocean area = 376.65 million  $\text{km}^2$

## Colour Zone

**Can you find out why the ocean appears to be blue?**

**Find some paintings of oceans and seas.  
Which one is your favourite and why?**

**Paint your own ocean scene.**

- **What colours will you use?**
- **Will your ocean be calm or rough?**
- **What else do you plan to include in your painting?**

**Can you paint some white crested waves?**

**If the highest part of a wave is the crest, can you find out what the lowest part is called?**



## Colour Zone

Can you find out why the ocean appears to be blue? The reason the ocean appears blue is due to the absorption and scattering of light. The blue wavelengths of light are scattered, similar to the scattering of blue light in the sky but absorption is a much larger factor than scattering for the clear ocean water.

Find some paintings of oceans and seas. Which one is your favourite and why? Discuss the reasons for their choice.

Paint your own ocean scene. Discuss their choices.

Can you paint some white crested waves?

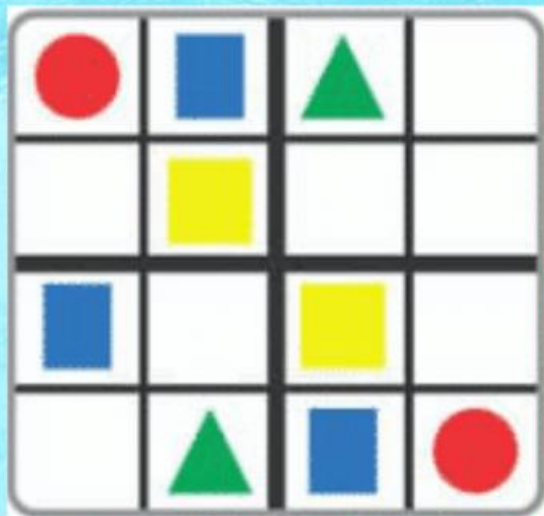
If the highest part of a wave is the crest, can you find out what the lowest part is called?  
trough

## Mathematical/Image Zone

Can you solve the shape sudoku?

Each row, column and 2x2 square must contain one of each shape and colour.

Can you design your own shape sudoku using 4 different shapes and 4 different colours?



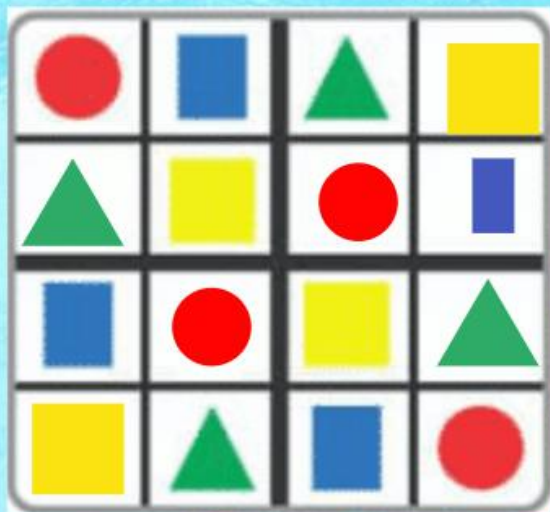


## Mathematical/Image Zone

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## Word Zone

A compound word is made up of 2 real words that combine to create a new word, e.g. star + fish = starfish

How many other ocean-themed compound words can you think of?

Can you create some picture clues and have someone guess what your words are?

★ + 🐟 = starfish

Find the missing word to make 5 compound words.

Put each of these words in a sentence.

cross  
catch  
buzz  
key  
pass



## Word Zone

A compound word is made up of 2 real words that combine to create a new word, e.g. star + fish = starfish

How many other ocean-themed compound words can you think of? E.g., angelfish, jellyfish, seashell, seaweed, surfboard.

Can you create some picture clues and have someone guess what your words are?

★ + 🐟 = starfish

Find the missing word to make 5 compound words.

Put each of these words in a sentence.

cross	} word
catch	
buzz	
key	
pass	

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