Teaching notes

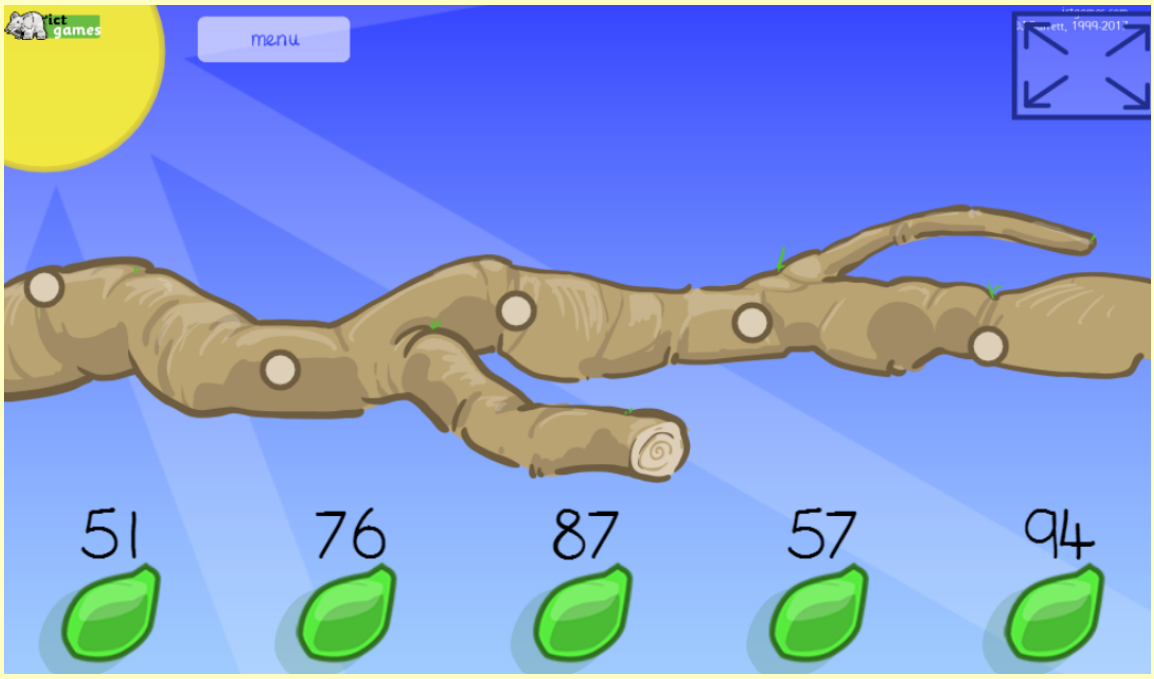
slide 6 - put the coloured circles together to look like a caterpillar. What is the pattern?

Ask the class to arrange another way. On slide 7, start to talk about working systematically. Starting with one colour and finding all the ways.

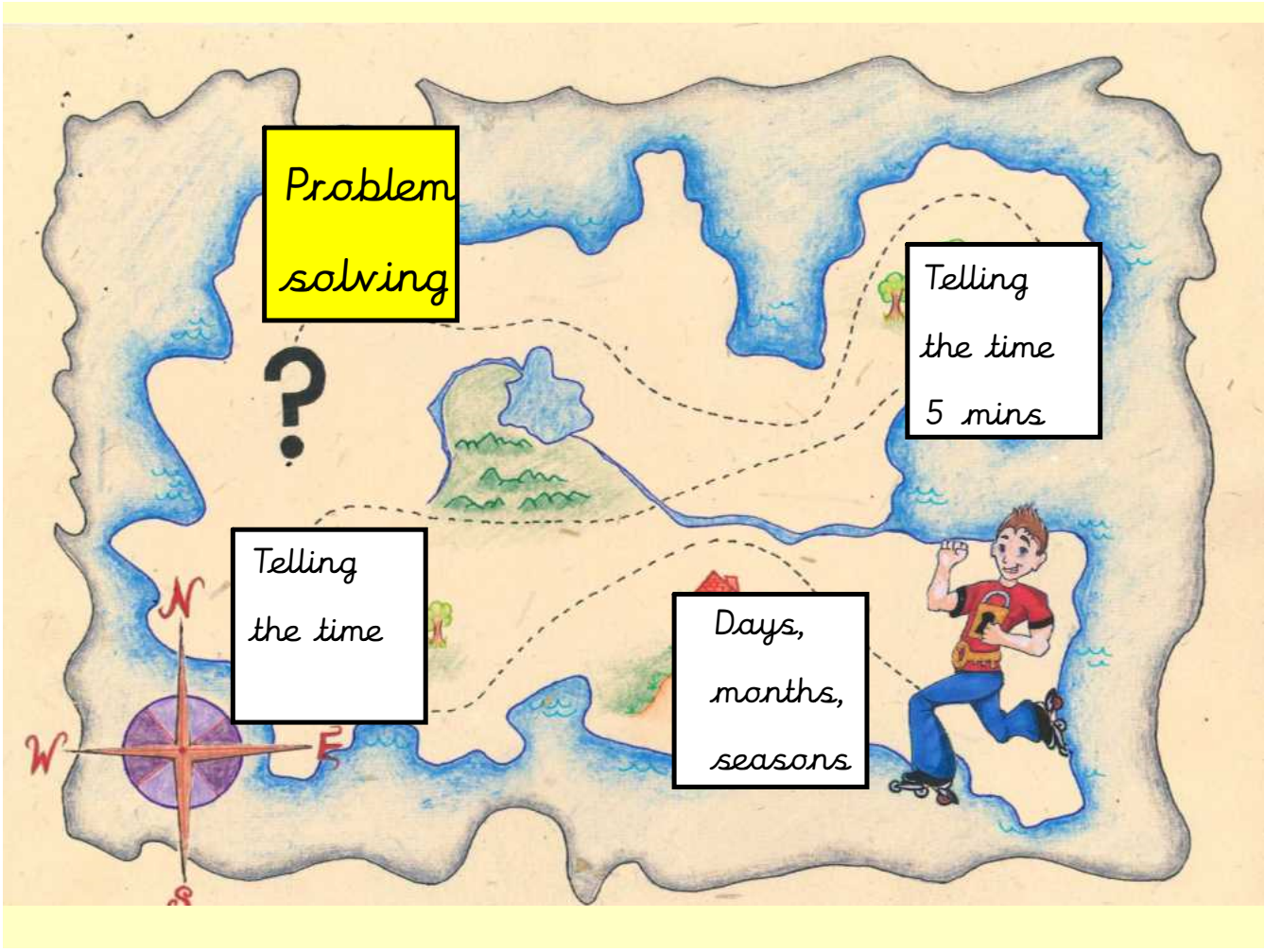
Pupils should be encouraged to choose own equipment (cubes, counters, or drawings) and method to record. (draw coloured circles, colour 4 squares of book, write initial of colour eg. R B Y G etc

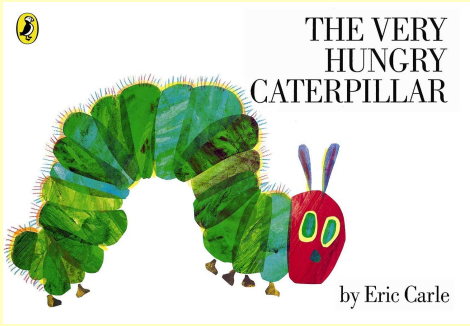
In the plenary, show some pupils work to demo the different ways to record. Talk about how we know we found all the ways and demo working systematically for anyone who didn;t.

Write the numbers in order on your whiteboard

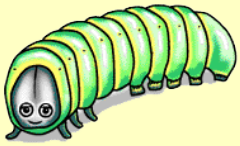


https://www.ictgames.com/mobilePage/countingCaterpillar/index.html

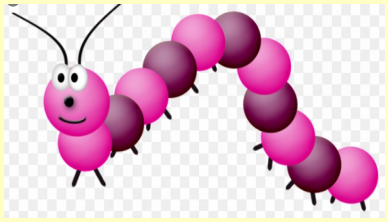

Problem solving
?
Telling the time 5 mins
Telling the time
Days, months, seasons
N
W
E
S

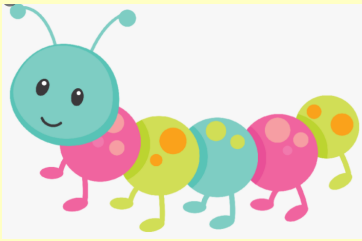


Today we will solve a problem by finding all possibilities



This week we have been thinking about minibeasts. We are going to think about caterpillars. Look at the patterns on these caterpillars. Can you describe the colour pattern?



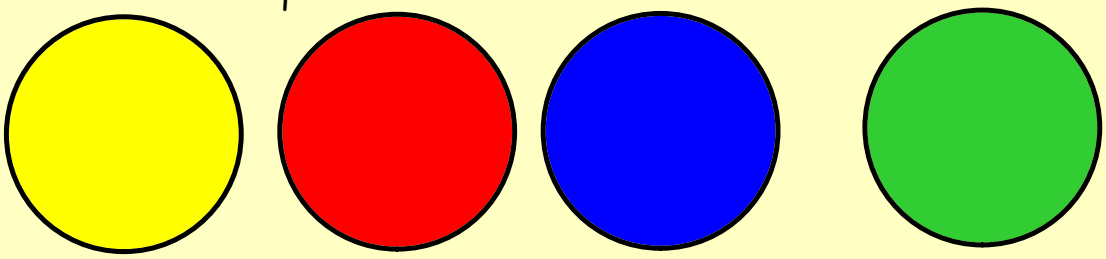




Investigation:

How many different caterpillars can you make using four different colours?

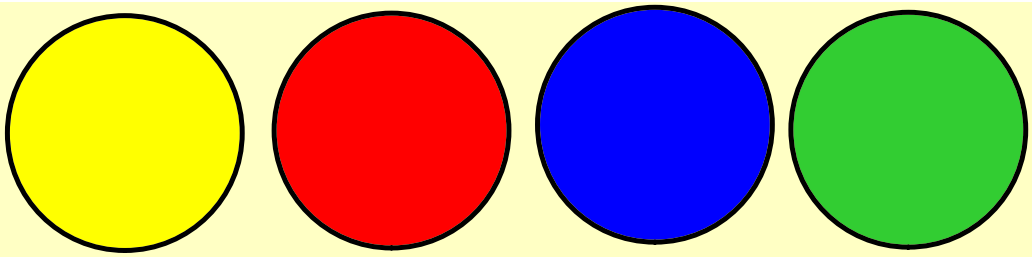
Each section of the caterpillar must be a different colour. Can you arrange the circles to make a caterpillar?



How could you record your answer?









Can you find another way to arrange the circles?

How many ways can you find?

How will you know that you have found all the ways?

Can you work systematically? What does this mean?

Your turn:

* Choose what you use to make your caterpillar using only 4 colours.



* Record each caterpillar you make.

* Try to work systematically to make all the ways.

Extension:

Explain how you know you have found all the different ways.

Extension 2:

If we had 5 colours, how many more caterpillars could we make?



Plenary

How did you record?

How many ways did you find?

How do you know you found all the ways?