## Maths Homework Grid (KS2)

Times Tables
Spend at least 15 minutes a day practising your
times tables
https://ttrockstars.com/
https://www.topmarks.co.uk/maths-games/hit-the-
button
https://www.timestables.co.uk/
Open ended investigations/problems
One is a snail Read one is a Snail 10 is a crab or
watch via the link below.
https://www.youtube.com/watch?v=VyDTpj8uxs 8
Discuss the different numbers represented by the
characters in the story. How might we be able to
see 15 feet on the same page? Is there a way that
we could find all combinations? What about 18 ?
Encourage children into a systematic approach like
the one below.

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## Open ended investigations/problems

One is a snail Read one is a Snail 10 is a crab or watch via the link below.

## https://www.youtube.com/watch?v=VyDTpj8uxs8

Discuss the different numbers represented by the characters in the story. How might we be able to see 15 feet on the same page? Is there a way that we could find all combinations? What about 18? the one below.

## Maths Games

Choose a maths game to play each day.
Have a go at inventing your own maths game.
https://matr.org/blog/fun-maths-games-activities-for-kids/
Link to maths games videos:
https://www.youtube.com/watch? $v=$ foj6ujoT_HU\&list=PLWIJ2KbiNEyoBDc5yLJ4PaiaY $305 E 5 \times C B$

## Open ended investigations/problems

Create your own business Ask your children to create a product that they would like to sell. Get them to design their product, think about what it will look like, how it will be packaged and how they will advertise it.
You can ask the Year 5 and 6 children to work in groups to investigate the real costs of this and then write a letter to you to apply for the amount of money that they will need to start their business. You may want to give the Year 3 and 4 children the example below to ensure that the numbers that they are working with are manageable. Give the children a start-up budget of $£ 200$ to pay for the manufacturing and packaging of their product and creating marketing materials. How much could they realistically sell their product for? How many units would they need to sell in order to be in profit? Is there company a viable company or will they need to change some of their original design to fit their budget?


Children work systematically to establish what animals could be represented by a given number (Y3/y4 36 legs y5/y6 100 legs)

Children who need pictorial representations could draw the animals or have cut outs to move around. Year 6 children could be encouraged to come up with algebraic statements, e.g. if dog is represented by $d$ which $=4$, crab is represented by $c$ which $=10$ how would you represent the other numbers from 1-10? You may want to change 8 to an octopus so that you don't have 2 lots of $s$. How many other ways could you represent the numbers between 1 and 10? E.g. 10 could be $2 d+p$.

## Product Costs

Manufacturing a football - $£ 1$ and 20p
Manufacturing a $t$-shirt - 80p
Manufacturing a chocolate bar - 12p
Manufacturing a smoothie - 55p
(add items of interest to this list accordingly)

## Packaging Costs

Plastic packaging - 13p
Colour plastic packaging - 15p
Cardboard packaging - 26 p
Colour cardboard packaging - 37p
(add items to this list accordingly)

## Marketing Costs

Poster - 30p
Colour poster - 40p
TV advert - £100
Radio advert - $£ 50$
(add other marketing to this list accordingly)
Children can reflect on their business plans. Can they afford a TV advert straight away or would they need to sell some of their products first?

| How could you show 3 crabs? 3c. Give children other numbers to investigate. <br> Children could then create their own book using a different setting (e.g. Jungle - 1 is a snake, 2 is a parrot, 3 is a snake and a parrot...) |  |
| :---: | :---: |
| Open ended investigations/problems <br> Building bridges <br> Give your children $£ 20$ (play money of course!) Tell them that they can buy materials to create the most efficient bridge/tallest tower that they can. Give them time to plan and a price list. <br> Price list <br> Sellotape - 50 p for 30 cm <br> Cardboard - £1 a sheet <br> Art Straws - 30p each <br> (add to the list with resources available) | Open ended investigations/problems <br> Top Trumps <br> Create a set of top trump cards for their favourite sports. Encourage children to research mathematical facts. But include one element of calculation in each card template suitable to different age groups of children. <br> Examples Football top trumps <br> https://www.transfermarkt.co.uk/harry-kane/profil/spieler/132098 <br> Player - Harry Kane <br> Value- £135,000,000 <br> Home stadium capacity (rounded to <br> the nearest 1000)- 62.000 <br> Goals scored in premier league career- <br> 136 <br> Games played in premier league career <br> - 201 <br> Number of goals per game (rounded to <br> $1 \mathrm{~d} . \mathrm{p}) 0.6$ |

## Ask the children to consider how many compare

 bears their bridge would be able to hold or how tall they think that they can make their tower.Children earn money back for the amount of compare bears that can stand on the bridge ( $£ 1$ per bear) or how many cm tall the independently standing tower is ( $£ 1$ per 10 cm ).

Are they in profit?


What is the most efficient shape that they can use to give them structure? Was spending lots of money on materials cost effective? Did they earn back more than they spent?

## Swimming top trumps

https://www.sports-reference.com/olympics/athletes/ad/becky-adlington-1.html

Swimmer - Rebecca Adlington
Number of medals - 4
Distance usually swam- 400 m
Personal record swim-4:02.24
Number of seconds it takes to swim a metre- 0.6 seconds
How close to the world record are they?- 5.74 seconds

