High Ercall Primary School
Times Table Challenge

In the National Curriculum for all Primary Schools, there are high expectations for all year groups for learning their multiplication and division facts.
Here are the expectations for each year group:

Year 1:   Count in 2s, 5s and 10s
Year 2:   Recall and use multiplication and division facts for the 2,5 and 10 times tables.
Year 3:   Recall and use multiplication and division facts for the 3,4,6,8 times tables.
Year 4:   Recall multiplication and division facts for all multiplication tables up to 12 x 12.

This is a big change, as there is now an expectation that by Year 4, all children will know their multiplication and division facts.

We are therefore having a big push on teaching multiplication and division facts at school. The more practise your child gets at home, the more it will support their work in school. This leaflet has lots of ideas for helping to learn the facts, other than just by rote! The more fun and practical, the better.

Platinum Award

Instant recall of the times tables to 12 x 12 – multiply and divide

Know square numbers and square root

Know equivalent fractions, decimals and percentages

Apply your multiplication and division facts to large and small numbers.

Name of child ....

Times Table Challenge – platinum

Each week your child will be tested with a set of multiplication or division questions.

They will move onto apply their knowledge to multiplying decimals, equivalent fractions, decimals and percentages and recalling facts such as square numbers and square root.

Please practise the times tables at home by games, reciting or learning songs using ICT APPs . There are some suggestions in this leaflet.

Decimal / percentage examples:

0.2 =
0.75 =
0.1 =
10% =
70% =
0.4 x 8 =
0.7 x 8 =

Fraction examples:

$\frac{1}{5}$ =
$\frac{1}{3}$ =
$\frac{1}{8}$ =

Square numbers:

1 x 1 = 1
2 x 2 = 4
3 x 3 = 9
4 x 4 = 16
5 x 5 = 25
6 x 6 = 36
7 x 7 = 49
8 x 8 = 64
9 x 9 = 81
10 x 10 = 100
11 x 11 = 121
12 x 12 = 144

Square root examples:

$\sqrt{81}$ = 9
$\sqrt{36}$ = 6
$\sqrt{9}$ = 3

Ideas to help learn times tables:

Games:

A pack of playing cards – take out the aces and Kings, count Jack as 11 and Queen as 12, and you can practise the full range of tables by dealing your child two cards and asking them to multiply them.

A pack of blank cards (make them out of cardboard or paper, or buy premade versions) These are infinitely versatile. You can write down whatever items your child has problems with and make Pelmanism sets with questions and answers. (Write the questions and answers on different cards. Shuffle and turn the cards face down. The child has to turn over a card, then turn over the matching card. You can start with a small number of sets and build up.) How many card questions can your child answer correctly against the clock?

Time challenges can be a really good way of helping times tables become automatic. Some ideas we use in school are:
- Measuring the time it takes to write the times table, then trying to beat that time
- Seeing how many times you can write that table in one minute
- Races/challenges against other people

If you have access to an ipad or tablet, there are lots of great **APPs** which you can use with your child to learn multiplication and division facts. Here's a couple which might be fun!

Some **websites** can be really useful: EXTRA ONES HERE FOR SQUARE, DECIMALS…
http://www.topmarks.co.uk/maths-games/7-11-years/times-tables
http://www.teachingtables.co.uk/
https://www.mathsisfun.com/square-root.html
https://www.mathsisfun.com/decimals-menu.html
http://resources.woodlands-junior.kent.sch.uk/maths/fractions/