# Multiplication and Division: Multiplication Magic 


#### Abstract

Aim: To write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods..

I can multiply multiples of 10 using Multiplication Magic.


## Success Criteria:

I can draw the wizard's hat to join the facts.
I can calculate the facts using multiplication tables.

## Key/New Words:

Calculate, multiples, partition, factor.

## Resources:

Lesson Pack

## Preparation:

Differentiated Multiplication Magic Cards - cut into individual cards
Multiplication Squares - as required

Prior Learning: It will be helpful if the children knew the multiplication and division facts for the $2 \mathrm{x}, 3 \mathrm{x}, 4 \mathrm{x}, 5 \mathrm{x}, 8 \mathrm{x}, 10 \mathrm{x}$ multiplication tables.

## Learning Sequence

Beat the Clock: Give each child a Beat the Clock Grid, with three columns circled for each child to complete. You
could just give them the whole grid and circle the three you'd like them to do if this is easier. Using a stopwatch or
online timer, start the clock. The children complete their three columns. When they've finished (and checked their
answers) they shout 'finished' and you read out their time. They write their time on the top of their sheet. When
five minutes is up, everyone stops and writes five minutes as their time. Mark the grids. Write the score on the top
and support children to set themselves a target for next time. The target should be full marks for score before time
is considered. If children are getting nearly full marks then they could set themselves a time target e.g. to complete
in four minutes. Choose more difficult multiplication tables or give more columns to complete in five minutes to
increase the level of challenge.

What is Multiplication Magic?: Children explain to their partners how to perform Multiplication Magic to show that they have achieved the success criteria.

## Exploreit

Explainit: Children demonstrate how to do Multiplication Magic and film their explanation to use as a tool to teach others.
Displayit: Make a display of the children's annotated examples of their use of Multiplication Magic.
Writeit: Write an instruction leaflet to explain the Multiplication Magic method to others.
Makeit: Ask children to make Star Number challenge cards of their own, thinking of some other calculations they could do involving the Star Number.

