

## VISITING THE ZOO OF STARS (AGES 4-99+)

Similar to dogs, stars in our universe come in different sizes and colours. However, unlike dogs, the colour of a star is determined by its temperature!

The hottest stars are blue and the coolest stars are red. This sounds odd because we associate red with hot and blue with cold (just look at the water tap). However, if you look at a candle flame you'll see a blue part. As it turns out, this is the hottest part of the flame!

Going back to the stars... Generally, hotter stars are larger and cooler stars are smaller. However, although we call them cool stars, they are not cool for human standards: a cool star is more than a thousand times hotter than the oven to bake cakes in your house!

Astronomers classify the zoo of stars according to their temperature starting from the hottest (also biggest). Their names are: O, B, A, F, G, K, and M! Easy but difficult at the same time! Use this mnemonic to remember: "Oh! Be A Fine Guy/Girl Kiss Me" (that's what astronomers do).

Below you can find a table with the names and colours of the stars. Use it to colour the stars that are scattered around the galaxy on the right! Our Sun is a yellow star, which type of star is it? B or G? Is it bigger or smaller than a type M star?

You should know that galaxies contain more than just stars, for example there is a giant black hole in their centre, and planets, asteroids, dust and gas. Fill the galaxy on the right with these objects!

Type	Color
O	Blue
B	Medium blue
A	Light blue
F	White
G	Yellow
K	Orange
M	Red

