Highfields Academy

Together we inspire, always aiming higher

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Tuesday 31st March 2020,

Good morning everyone,

I hope you are all ok and staying fit and healthy. A big thanks to all of you that have sent me your pictures of Mickey Mouse over the last few days. I've had lots sent to me and they all look great. Thanks also to those of you who have sent me your new verse of the song Imagine, some very thoughtful work.

It was great to see Y4 take part in the video conference yesterday. I'm hoping that in the future we will be able to do more of these.

Today's challenge is a maths one. It is called the leapfrogging sheep. The rules are. Depending how many sheep you have depends on the size of the pitch. If there is only one sheep on each team the pitch is 3 squares, if there are 2 on each team there are 5 squares and if there are 3 there will be 7 squares: (examples below)

The rules are:
- Red sheep can only move left to right
- Blue sheep can only move right to left
- You can leapfrog over a sheep on the other team but you can only leapfrog over one sheep at a time, you have to be right next to the sheep and there must be an empty space to land.

The task is to move all the red sheep to the right hand side and all the blue ones to the left.

How many moves does it take to complete if there are:
1 sheep on each team
2 sheep on each team
Then, 3, 4 or 5 sheep, and so on……….

Let's see how far you can go. Once you have done a few you may spot a pattern in the numbers to be able to work out what the next ones are without having to actually do it.

This is quite a tricky one but I hope you have fun trying.

Good luck, and take care of yourselves.
Mr Dyson