



THE SCIENCE BEHIND THE MAGIC

"ANY SUFFICIENTLY ADVANCED TECHNOLOGY IS INDISTINGUISHABLE FROM MAGIC" - ARTHUR C CLARKE

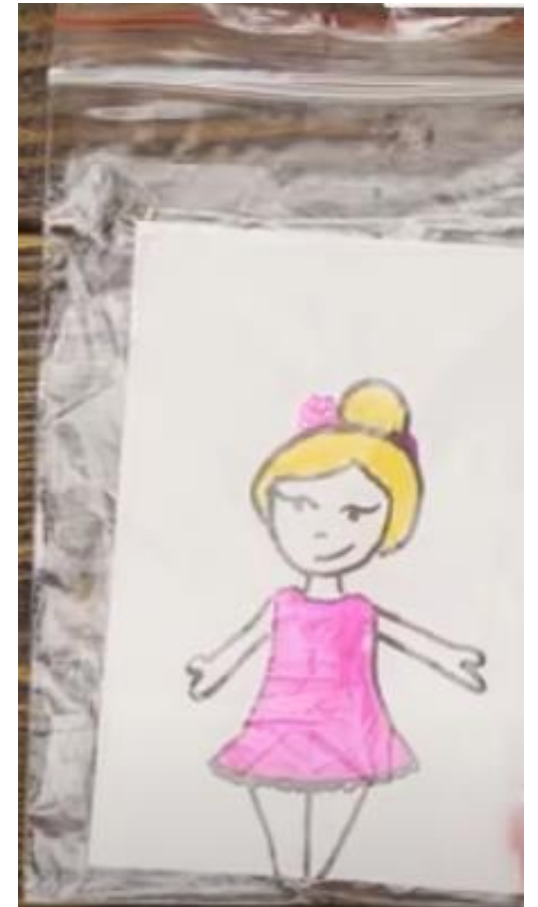
- What does this quote mean?
- How would someone in the stone age have reacted to your mobile phones?
- Consider the following video:
<https://www.youtube.com/watch?v=Ux7LSzwPUxE>
- Explain whether you think the theory is credible. How are the points put forward explained by other theories?
- A film detailing more of the theory is here:
https://www.youtube.com/watch?v=RaP7pq_ilGE

THE MAGIC OF LIGHT

- <https://www.youtube.com/watch?v=g7Wa3EKEkm8>
- <https://www.youtube.com/watch?v=PoYR8hcEUxo>
- Watch the videos and do some research into how they manage to perform their tricks.
- What is the name of what is happening to the light in these tricks?
- How does this work? Draw a diagram and explain how the light is effected by the water.

CAN YOU WORK IT OUT?

- Can you make the girl change outfits just like that?
- Design a magic trick that allows this to happen.
- If you can, video you performing the magic trick.
- Include instructions on how to carry this trick out.
- Include a section that explains the science behind the magic.





THE COMPETITON!

Prize available for 1st place!
Honourable mentions for 2nd and 3rd place



THE COMPETITION

- Using your research and explanation of refraction use this science to come up with your own magic trick using the magic of light!
- Within this needs an explanation as to the aim of your magic trick with a step by step guide to carry it out as well as an explanation on how it will work, the science behind the magic!
- Hopefully, you can also include a video!



COMPETITION ENTRIES

- Email: Competitions@gordons.school
- When you email, please use the subject heading 'KS3Week 7 – The Science behind the magic'
- Closing date: 9am Friday 26th March 2021
- Winners will be announced via weekly Schoolcomms