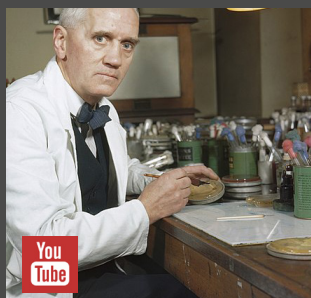# ARE YOU COLLEGE READY?

STOCKPORT COLLEGE

What is Science?

Science is the pursuit and application of knowledge and understanding of the natural and social world following a systematic methodology based on evidence. Science is about improving people's lives, improving commercial enterprises and developing our knowledge of people, nature, our world and the universe. Careers in the UK science sector are exciting and vary from an Agronomist to a Zoologist!

Research to help you with your course next year

BBC iPlayer   You Tube

Watch one (or more!) of the documentaries below and think about how the issues link to Science: Available on BBC iPlayer or Youtube.

ANTIBIOTICS: PAST, PRESENT AND A FUTURE?

HOW TO MAKE HEADPHONES

THE MAGIC OF CHEMISTRY - WITH ANDREW SZYDLO

8 DAYS: TO THE MOON AND BACK

Use these websites to help you with the tasks below and develop your understanding of the sector:

- www.chemistryworld.com/features/plastic-recycling-heading-for-the-mainstream/4011422.article
- www.scienceandindustrymuseum.org.uk/objects-and-stories/john-dalton-atoms-eyesight-and-auroras
- https://www.turing.ac.uk/blog/what-alan-turing-means-us
- www.graphene.manchester.ac.uk/learn/discovery-of-graphene/
- https://nationalcareers.service.gov.uk/job-categories/science-and-research

College Ready Tasks

TASK 1
Make use of the National Careers Service website and research a range of job roles within the field of science.

TASK 2
Manchester is proud to be associated with scientists such as (a) John Dalton, (b) Alan Turing, (c) Andre Geim and (d) Kostya Novoselov. Research these scientists and consider the impact they have had to the world.

TASK 3
"By 2050, the oceans will contain more plastic by weight than fish – if we don't change our ways" was the headline-grabbing conclusion of a 2016 report from the Ellen MacArthur Foundation. Explore the importance of recycling technologies associated with single use plastics.

Good luck with your tasks, enjoy your Summer and I look forward to welcoming you in September. If you have any questions please contact me on **andrew.mould@tcg.ac.uk**

Andy Mould, Head of Studies, Science