

# HELSBY

## Sixth Form



# **Year 11 Sixth Form Transition Material**

## **Applied Science**

Congratulations on choosing to study Applied Science at BTEC

The information and tasks contained in this booklet will help you to research and prepare for your course when you start at Sixth Form Helsby in September. They will provide you with an overview of what to expect from your A Level studies and help you to develop a greater understanding of the subject.

This is by no means an exhaustive list but it will help you to start thinking about the subject and extra-curricular study and research.

## **Podcasts/U-tube**

### **TED Talks**

#### **The fascinating physics of everyday life**

[https://www.ted.com/talks/helen\\_czerski\\_fun\\_home\\_experiments\\_that\\_teach\\_you\\_physics?language=en](https://www.ted.com/talks/helen_czerski_fun_home_experiments_that_teach_you_physics?language=en)

#### **Growing New Organs**

[http://www.ted.com/talks/anthony\\_atala\\_growing\\_organs\\_engineering\\_tissue?language=en](http://www.ted.com/talks/anthony_atala_growing_organs_engineering_tissue?language=en)

#### **A New Superweapon in the Fight Against Cancer**

[http://www.ted.com/talks/paula\\_hammond\\_a\\_new\\_superweapon\\_in\\_the\\_fight\\_against\\_cancer?language=en](http://www.ted.com/talks/paula_hammond_a_new_superweapon_in_the_fight_against_cancer?language=en)

#### **Just how small is an atom?**

[https://www.ted.com/talks/just\\_how\\_small\\_is\\_an\\_atom](https://www.ted.com/talks/just_how_small_is_an_atom)

#### **Play with Smart Materials**

[https://www.ted.com/talks/catarina\\_mota\\_play\\_with\\_smart\\_materials](https://www.ted.com/talks/catarina_mota_play_with_smart_materials)

#### **BTEC Applied Science Help**

[https://www.youtube.com/channel/UC11v-AL\\_4VFrVczVBzURmIq](https://www.youtube.com/channel/UC11v-AL_4VFrVczVBzURmIq)

## **Trips/Visits**

#### **Science and Industry Museum** - Manchester

<https://www.scienceandindustrymuseum.org.uk/>

#### **Science Museum** – London

<https://www.sciencemuseum.org.uk/home>

#### **Jodrell Bank** – Lower Withington

<https://www.jodrellbank.net/>

#### **The Catalyst** – Widnes

<https://www.catalyst.org.uk/>

## **Reading**

**Bad Science** by Here Ben Goldacre

**A Short History of Nearly Everything** by Bill Bryson

**The Disappearing Spoon** by Sam Keane

**Thing Explainer: Complicated Stuff in Simple Words** by Randall Munroe

## **Films/Documentaries/TV**

**Apollo 13 (1995)**

**The Insider (1999)**

**Erin Brokovich (2000)**

**Something the Lord Made (2004)**

**Lorenzo's Oil (1992)**

## **UCAS**

[https://www.ucas.com/explore/search/all?query=Applied Science](https://www.ucas.com/explore/search/all?query=Applied%20Science)

Other related courses (but the list is endless!!)

<https://www.ucas.com/explore/search/all?query=Biology>

<https://www.ucas.com/explore/search/all?query=Chemistry>

<https://www.ucas.com/explore/search/all?query=Physics>

<https://www.ucas.com/> - Takes you to the search engine and enter any course/subject you are interested in.