



Prize Winner

Multimedia

Year 3-4

Isaac Khoo

Highgate School



Title: Magnets & Magnetism

By: Teng Shun Isaac Khoo

Camera: Samsung Galaxy Note 10+

List of software:

1. DaVinci Resolve 16 (Video Editing)
2. Adobe Photoshop 2021 (Titles, Texts & Image Transparency)
3. Subtitle Edit (Subtitles Creation)
4. Microsoft Word (Prepare Transcripts)

Bibliography/Reference:

- Why? Science book by Emily Dodd
- Permanent Magnet - <https://nationalmaglab.org/about/maglab-dictionary/permanent-magnet>
- Temporary Magnet - <https://www.petropedia.com/definition/9379/temporary-magnet>
- Electromagnet - <https://en.wikipedia.org/wiki/Electromagnet>
- Unit of measurement for magnetic field - <https://www.arpansa.gov.au/understanding-radiation/radiation-sources/more-radiation-sources/measuring-magnetic-fields>
- Magnetism - <https://www.youtube.com/watch?v=yXCeuSiTOug>
- Magnets and Magnetism - <https://www.youtube.com/watch?v=-aNpmCSZHbk>

Background Music: Once Again(<https://www.bensound.com>)

My video is about magnets and magnetism. I created this video because I have not learnt about Magnets in school yet but I was interested about it. I conducted some experiments to find out more about magnets and magnetism. I was fascinated that I could use iron filings to see the invisible magnetic field. This was one of the most interesting topics I have ever read about and I learnt lot about different types of magnets and their applications.

Through this project, I learnt how to edit my film, put layers on my film, add background music, and apply video transitions on different experiments using DaVinci Resolve. With Adobe Photoshop 2021, I learnt how to create titles, texts, and create transparent background for my images. In order to be inclusive, I used Subtitle Edit to create subtitles for hearing impaired viewers. On Microsoft Word, I used it to prepare transcripts and write this report. Having the transcript helps with the subtitles file creation.

Help:

- Dad helped to purchase magnets and iron filings.
- Dad helped me set up the camera and we edited the video together.
- Dad taught me how to use Subtitle Edit software.

Notes:

The following files below can be downloaded from Google Drive using the link below

- [0250-033.Khoo.Magnet.and.Magnetism.mp4](#)
- [0250-033.Khoo.Magnet.and.Magnetism.srt \(subtitle file\)](#)

https://drive.google.com/drive/folders/1ntM7fc3rFF4kqyw_VyzkMT_nKX_2Wj6O?usp=sharing.

The video can also be viewed via YouTube using this link <https://youtu.be/SBK6aq3ZTeg>.