

Is it safe to use media
in Science?

How can it hinder scientific views?

- Media portrays scientists in multiple but not always accurately depending on their audience and the mediums message.
- Often current and political affairs can affect the audiences opinions and create propaganda or misleading information when things are taken out of context.
- The information presented within articles can be at risk of being unreliable and inaccurate depending on which source is used.

- Different types of media include films, tv shows, internet, journals and search stations.

- TV – National Geographic
- News Journals – Daily Mail
- Social Media – Instagram
- Web pages - YouTube



YouTube



TV

David Attenborough – English natural historian who documents 'Planet Earth' to highlight the natural attraction of the Earth.



Positive Aspects:

- Showing the Earth as a natural attraction.
- Image quality is of high definition enhancing the natural beauty
- Documentary provides awareness to the environment and how we can keep the Earth clean and safe

Negative Aspects:

- Lack of scientific evidence and where present it is not correct
- Inaccurate as everything is made to seem 'picture-perfect' whereas in reality it isn't like that
- Reality like carbon footprints and pollution are not shown
- Filming crew damage the lands and destroy nature as they are constantly treading on it but they wouldn't show that on the documentary

Newspaper

He Jiankui – Chinese researcher specialising in gene editing. His prodigies were babies and he was eager to produce the first set of babies who had been genetically edited. None of his work was safe.

Positive Aspects:

- Aspired to produce something new by expanding gene editing to babies to fit certain characteristics
- Experiments confirmed it was possible to change genes

Negative Aspects:

- Dangerous experiments – babies died
- People agreed that his experiments should not continue to stop many other women from losing their babies.
- Although he wanted to make a good change, the media perceived him to be mad which hindered progression of devising safer methods.



Film

Dr Henry Wu – Jurassic World also relates to gene editing. Dr Wu, a geneticist, changed the DNA in dinosaurs to produce more. The dangerous experiments caused the creation of harmful predators, which risked the lives of visitors at the park. He was seen as mad, despite him thinking he did the right thing.

Positive Aspects:

- Good movie for kids and raised awareness of gene editing.
- Development of animals shown well
- Raising eco awareness

Negative Aspects:

- Not accurate – information was false
- Limited target audience as not many people would understand it.



Internet Search Engine

Joseph Mengele – Nazi doctor infamous for his experiments on twins. He was labelled ‘Angel of Death’. He injected chemicals into twins’ eyes to alter their eye colour to blue. He has never been seen as a good person and has been known as the most evil scientist to exist.

Positive Aspects:

- No positive aspects. He died due to a stroke when swimming.

Negative Aspects:

- Only negative aspects.
- Work permitted by Hitler.
- 1500 twins were experimented on
- When he realised there was no change to the eye colours, the children were left blind. He beat them to death and sent their bones to be tested.



References

- Attenborough, D., 2021. *BBC One - Planet Earth*. [online] Bbc.co.uk. Available at: <<https://www.bbc.co.uk/programmes/b006mywy>> [Accessed 12 January 2021].
- Normille, D., 2021. *Chinese Scientist Who Produced Genetically Altered Babies Sentenced To 3 Years In Jail*. [online] Science | AAAS. Available at: <<https://www.sciencemag.org/news/2019/12/chinese-scientist-who-produced-genetically-altered-babies-sentenced-3-years-jail>> [Accessed 12 January 2021].
- Encyclopedia Britannica. 2021. *Josef Mengele | Biography, Death, Angel Of Death, & Facts*. [online] Available at: <<https://www.britannica.com/biography/Josef-Mengele>> [Accessed 12 January 2021].

A) There should be a section identifying the learner's strengths and areas for improvement in relation to writing skills (including paragraphing, punctuation and spelling). (LO 2)

B) There should be a discussion on the research that was undertaken for the assignment, evaluating its usefulness and making decisions about future practice. (LO 2)

C) There should be an explanation of how the learner ensures that their work is written appropriately to avoid plagiarism and indicate the consequences of plagiarising. (LO 2)

D) There should be a discussion on the appropriateness of the references and use of the Harvard or other referencing system. (LO 2)

Part C. The reflective process.

Identify and outline two suitable reflective models (LO 3)

Compare and contrast the two reflective models illustrating with reference to the learner's completion of Part A presentation including self, peer and tutor feedback. (LO 3)

An action plan should be included following the reflection of areas to develop and improve for future presentations. (LO 3)

Strengths:

- Proper format was followed.
- The answers were organised systematically and followed logical progression.
- Spelling error was less.
- The answers were well structured.
- Paragraphing technique was followed accurately.
- Excellent presentation skills.

Areas for improvement:

- Too less detailed oriented answers.
- Referencing not followed properly.



Undertaken Research

- All the sources including articles were extracted from the authentic s databases.
- Authentic databases : CINHAL Full Text, The Cochrane Central Register of Controlled Trails, Medline Full Text, PubMed, Embase and Science Direct.
- The articles were searched by deploying the appropriate Key-words.
- Included resources were mentioned in the reference list and in-text.

Evaluating its usefulness

- CASP tool was deployed to identify the standard of the research articles grounded on the set of questions.
- Each article was assigned with some score.
- Included articles which scored 16 or more than 16.

Future practice

- It is essential to include data from the authentic database.
- To avoid plagiarism, all the sources must be included in the reference list.
- Key-words must be deployed to search the authentic articles.



What is plagiarism?

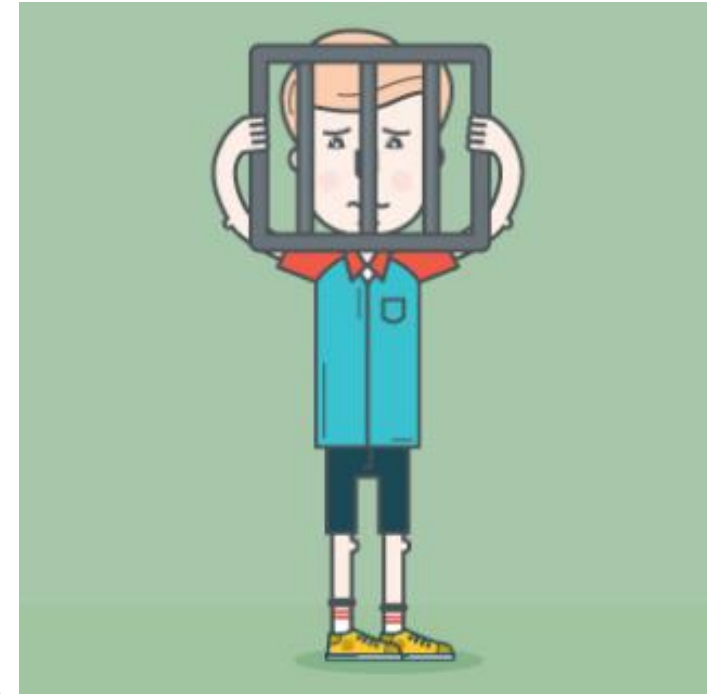
Plagiarism can be defined as taking someone else or researchers' idea or work and presenting it as own work or idea.

How to avoid plagiarism?

- One must keep track on the articles or sources used in the research.
- Paraphrasing is an effective technique to avoid plagiarism.
- One must credit the researcher or author in the form of in-text and mentioning the source detail in the referencing list.
- Plagiarism checker must be deployed before submitting the work.

Consequences

- It can destroyed the professional or student reputation.
- Legal repercussions can be the major consequences associated with plagiarism.
- Destroyed the academic reputation of the student and course failure. (Awasthi, 2019).



Appropriateness of the references

- Proper referencing style was not followed in the assignment I
- As per the requirement file it was mandated to follow Harvard Style of referencing.
- The feedback from the professor makes me to understand that it is essential to use proper referencing style.
- Proper referencing reduce the risk of plagiarism.
- Following proper referencing aid in fetching good marks.

Harvard Referencing

- In-text citation

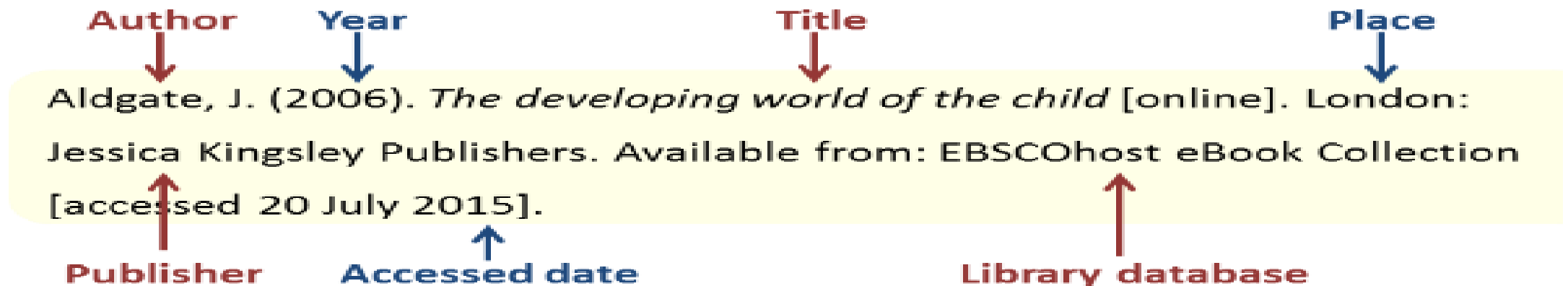
(Author surname, year of publication)

For instance (Thomas, 2021).

- Referencing list

Author surname, initial.(year). Source name. Place: publisher.

e.g. Thomas, A. (2021). Experience. United Kingdom: Chapman & Hall.



References

Awasthi, S. (2019). Plagiarism and Academic Misconduct: A Systematic Review. *DESIDOC Journal of Library & Information Technology*, 39(2).

Reflective model

- Gibb's Model reflective model
- Rolfe et al's Framework

Gibb's Model

- **Description :** I completed by task and submitted the same to my professor for the evaluation .
- **Feelings:** I was happy on submission of my task and eagerly waited for the feedback. Initially I feel bad after seeing some negative feedback , but then I realized feedback is important for growth.
- **Evaluation:** As per the feedback from my professor, I demonstrated the excellent knowledge grasp and accurately identify organic molecules. Moreover, presented the reaction mechanism accurately. However, I did not follow the Harvard Referencing style.
- **Analysis:** Through this task completion, I learned that it is paramount to follow all the requirements while aiming for distinction. Moreover, paraphrasing and proper in-text is must to reduce the risk of plagiarism.
- **Conclusion:** Over all, the whole process of understanding and completing the task was not good. Moreover, through the feedback from my friends and professor , I understand my strength and weaknesses. To conclude, I wrote in accurate scientific English with fully correct use of technical terminology, correct spelling, punctuation and grammar; fully referenced where appropriate.
- **Action plan :** In future, I will follow the proper referencing style . For the same I will go through the existing literature intending to describe various referencing style including APA and Harvard.

Rolfe et al's Framework

- What? I completed by task and submitted the same to my professor for the evaluation .I was happy on submission of my task and eagerly waited for the feedback. Initially I feel bad after seeing some negative feedback , but then I realized feedback is important for growth.
- So what? As per the feedback from my professor, I demonstrated the excellent knowledge grasp and accurately identify organic molecules. Moreover, presented the reaction mechanism accurately. However, I did not follow the Harvard Referencing style. Through this task completion, I learned that it is paramount to follow all the requirements while aiming for distinction. Moreover, paraphrasing and proper in-text is must to reduce the risk of plagiarism. Over all, the whole process of understanding and completing the task was not good. Moreover, through the feedback from my friends and professor , I understand my strength and weaknesses.
- Now What? In future, I will follow the proper referencing style . For the same I will go through the existing literature intending to describe various referencing style including APA and Harvard.

Action Plan

- Will work on my referencing style.
- Will work on my writing skill also to improve more.
- Will follow the accurate and reliable sources in my further tasks also.

Quality

<p>is structured in a way that is generally logical and fluent</p> <p>puts forward arguments or ideas which are generally unambiguous but which are in a minor way limited or incomplete</p> <p>taken as a whole, demonstrates a very good response to the demands of the brief/assignment</p>	<p>is structured in a way that is consistently logical and fluent</p> <p>puts forward arguments or ideas which are consistently unambiguous and cogent</p> <p>taken as a whole, demonstrates an excellent response to the demands of the brief/assignment</p>
What this means for the assignment:	What this means for the assignment: