Reading in DESIGN TECHNOLOGY

ARC

Disciplinary literacy is defined as the confluence of content knowledge, experiences, and skills merged with the ability to read, write, listen, speak, think critically and perform in a way that is meaningful within the context of a given field.

🌍 CULTURAL CAPITAL

- News articles
- Opinion pieces
- Documentaries

By reading about current affairs relating to Design Technology pupils are able to deepen their knowledge and understanding around the subject:

- **Use reading as a way to make connections and understand real world issues related to Design Technology .**
- **Read nonfiction critically.**
- **Summarise and synthesise ideas.**

SUMMARISING   SYNTHESISING   MAKING CONNECTIONS
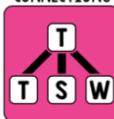
📋 INSPIRATION & MOTIVATION

- DT books
- Social Media
- DT in the news
- Firefly resources

Design Technology is centred around reading, interpreting, adjusting and creating a product. Instructions and manufacturing planning is structured in a way which is unique to many other texts and contain industry standard terminology, abbreviated words and measurements which a pupil needs to comprehend before they are able to research, design model and manufacture a product come to life or create their own:

- **Pay attention to detail and think sequentially. Read closely and carefully.**
- **Pay close attention to and make meaning from every word, symbol and number.**
- **Apply previously learned concepts and processes to make connections.**
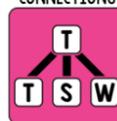- **Decipher vocabulary necessary for understanding and reinforcing etymology.**

QUESTIONING   MAKING CONNECTIONS   CLOSE READING

📋 INSTRUCTION

- DT Journals (DATA)
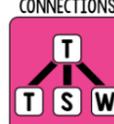- Blogs
- Instruction manuals

Pupil's must learn to follow, interpret and adjust instructions in order to produce an outcome or write their own instructions. By learning how to accurately read and follow instructions, pupil's will be able to apply this to practical scenarios and industry

- **Pay attention to detail and think sequentially. Read closely and carefully.**
- **Apply previously learned concepts and processes.**
- **Decipher vocabulary necessary for understanding.**

MAKING CONNECTIONS   SYNTHESISING   CLOSE READING

TECHNOLOGY

A key factor is being able to decipher technology concepts / texts in relation to design technology. It is important that students learn to read like scientists in order to access and comprehend technical information:

DISTINCTIVE FEATURES

- Texts are typically concept and idea dense
- Letters and numbers (COSHH) have unique meanings
- Numbers may be uninterpretable without unit labels (mm)
- Many technical words contain Latin or Greek roots that not only reveal meaning but help to understanding.
- Many visual representations (e.g. graphs and charts)
- Analysis of procedures/performances

DEMANDS AND STRATEGIES

- Close reading and rereading
- Question reasoning and conclusions
- Pay attention to detail and numbers
- Analyse key words and word parts for identification and classification purposes
- Chart, illustrate and graph data and conclusions
- Use scientific (and sometimes mathematical) text features to make meaning

DETERMINING IMPORTANCE

VISUALISING

PREDICTING

INDEPENDENT READING

STUDENTS READ ALOUD

TEACHER READS ALOUD

DISCIPLINARY LITERACY