READING IN DESIGN AND TECHNOLOGY

Disciplinary literacy involves acquiring the specialised reading, writing, and critical thinking skills necessary to engage effectively with the language, conventions, and content specific to a particular academic discipline or professional field. It focuses on understanding and using the unique communication modes and practices within a given area of knowledge.

Determining Importance **Visualising** **Predicting** **Independent Reading** **Students Read Aloud** **Teacher Reads Aloud**

INSPIRATION   *Technology Books, Technology in the News, Social Media*

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 can 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.**

MAKING CONNECTIONS   CLOSE READING   QUESTIONING

INSTRUCTION   *Technology Journals, Blogs, Instruction Manuals*

Pupils must learn to follow, interpret and adjust instructions 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   CLOSE READING   SYNTHESISING

CULTURAL CAPITAL   *News Articles, Opinion Pieces, Documentaries*

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

- **Use reading to make connections and understand real world issues related to Design Technology .**
- **Read non-fiction critically.**
- **Summarise and synthesise ideas.**

MAKING CONNECTIONS   SUMMARISING   SYNTHESISING

A key factor is being able to decipher technology concepts and texts in relation to design technology. It is important that students learn to read like scientists 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.