

# Design and Applied Technology

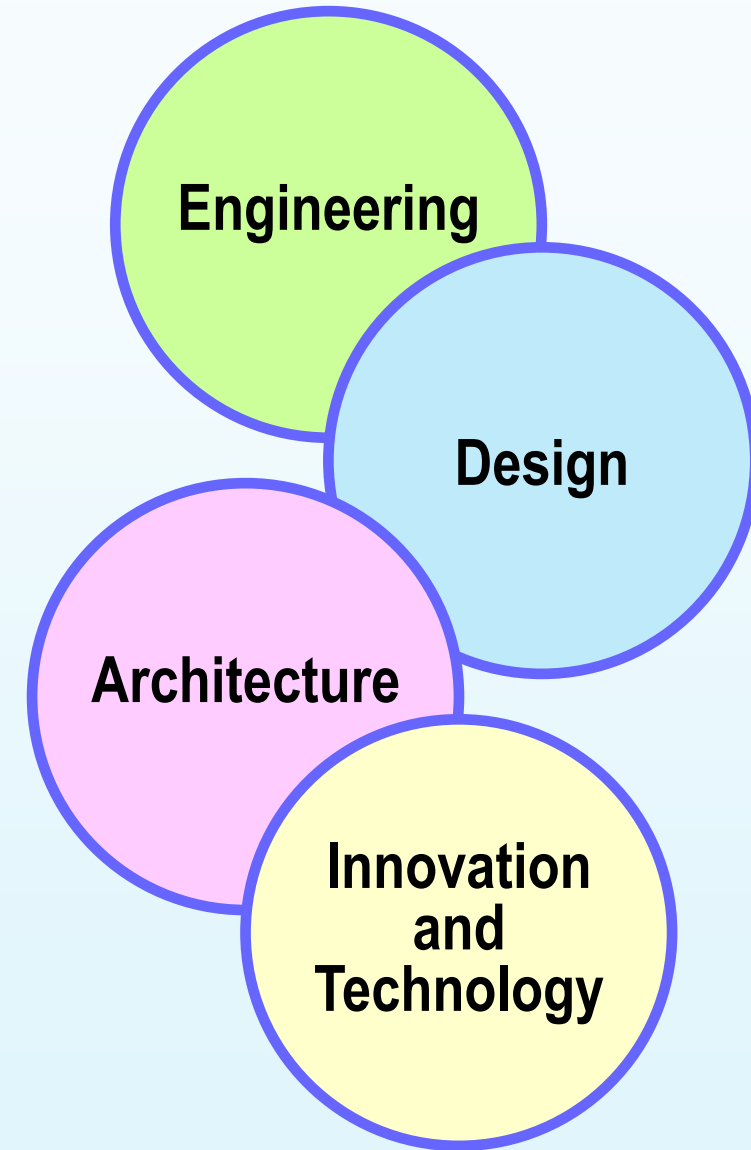
Technology Education Section  
Curriculum Support Division  
Education Bureau

# Curriculum Aims

To provide students with fundamental knowledge and skills in technology and design, and to cultivate them the attributes of innovation and entrepreneurship necessary to face the rapid social, economic and technological changes in a knowledge-based economy.

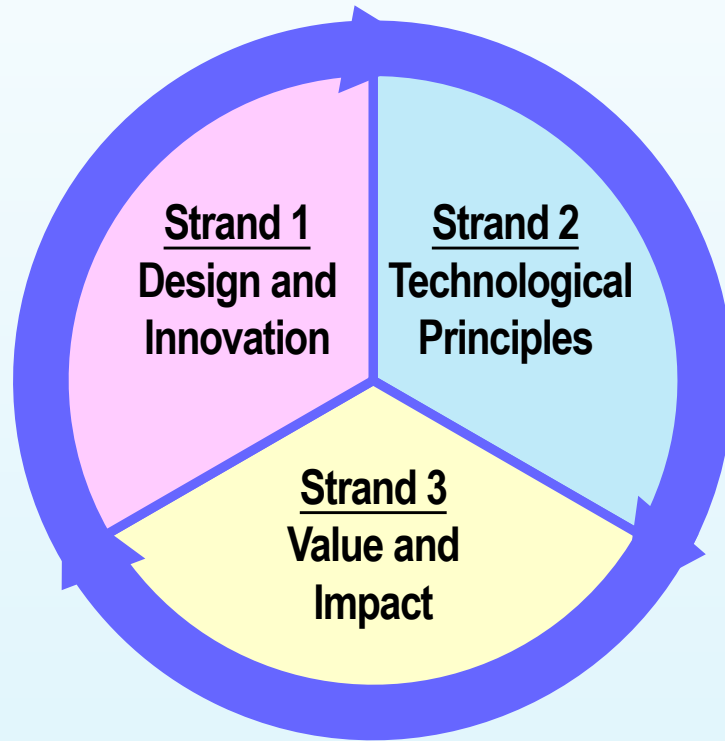
**The broad aims of the curriculum are to enable students to:**

- become independent thinkers and **innovative problem-solvers**;
- develop **practical skills and knowledge** in technology and design;
- identify needs, wants and opportunities for improving the quality of living, and develop design and technological responses as well as **entrepreneurship**, accordingly; and
- become discriminating, informed and **responsible users of products**, and develop their awareness of the interplay between technology and aesthetic, enterprise, social, cultural and ethical issues.

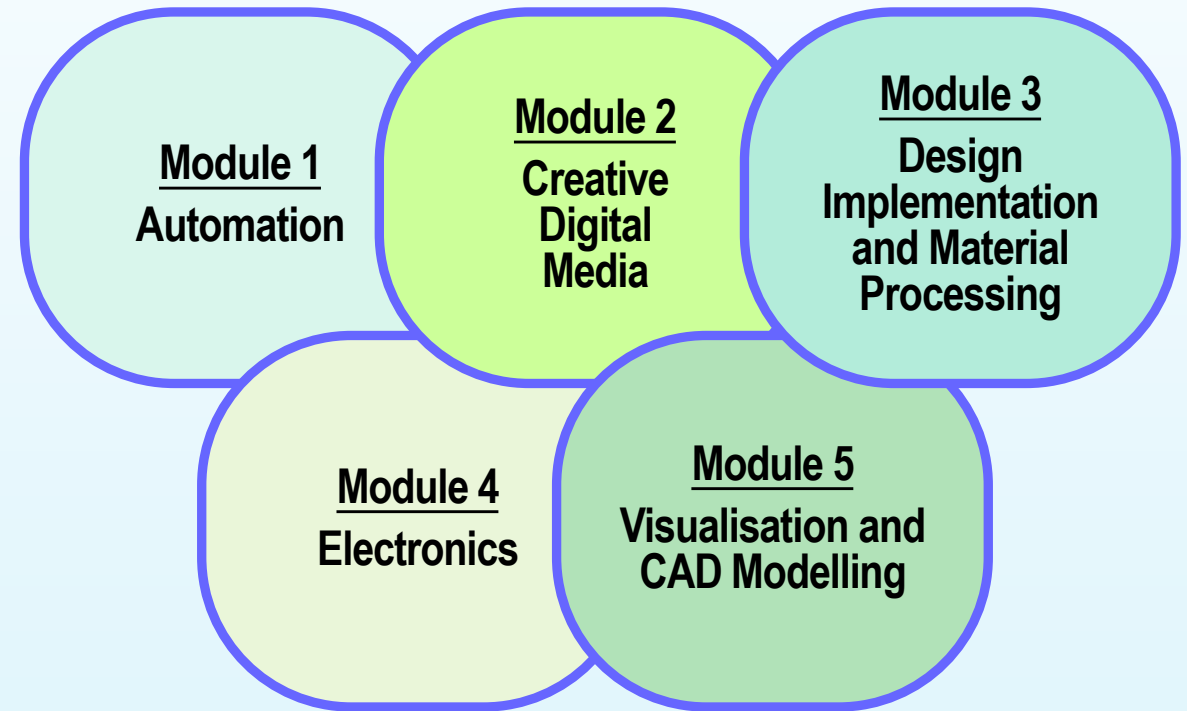


# Curriculum Framework

The DAT curriculum comprises **compulsory and elective parts**. Students are required to study the **compulsory part** plus **two optional modules** in the elective part.



**COMPULSORY PART** (about 50% lesson time)



**ELECTIVE PART** (about 50% lesson time)  
(Choose any **TWO** MODULES)

# Assessment Mode

Component	Part	Weighting	Duration
Public Examination	<b>Paper 1</b> Compulsory Part	30%	2 hours
	<b>Paper 2</b> Elective Part  Choose <b>any two</b> of the following five modules : 2A: Automation 2B: Creative Digital Media 2C: Design Implementation and Material Processing 2D: Electronics 2E: Visualisation and CAD Modelling	30%	2 hours
School-based Assessment (SBA)	<b>Design Project</b>	40%	

# School-based Assessment in DAT: SBA Design Project



Apply the technological knowledge they learnt in real life contexts

Examples of SBA Design Project :

- Automatic coins sorting and counting machine
- Pet feeder
- Wave power generation system
- Outdoor play equipment
- Home fitness device for the elderly
- Automatic cleaning robot
- **Student-defined Topics**



More information: Exhibition and Resources of DAT SBA Design Projects  
(<https://www.edb.gov.hk/en/te/dat-sba>)



## Examples for Learning and Teaching Resources

**The learning of DAT is fun and inspiring.** Teachers will flexibly use different learning and teaching resources to design classroom activities according to students' abilities and needs to promote effective learning. (*EDB Learning and Teaching Resources website: <https://www.edb.gov.hk/en/techsubj/resources>*)



### 1 練習(1): 手繪草圖練習



七彩虹

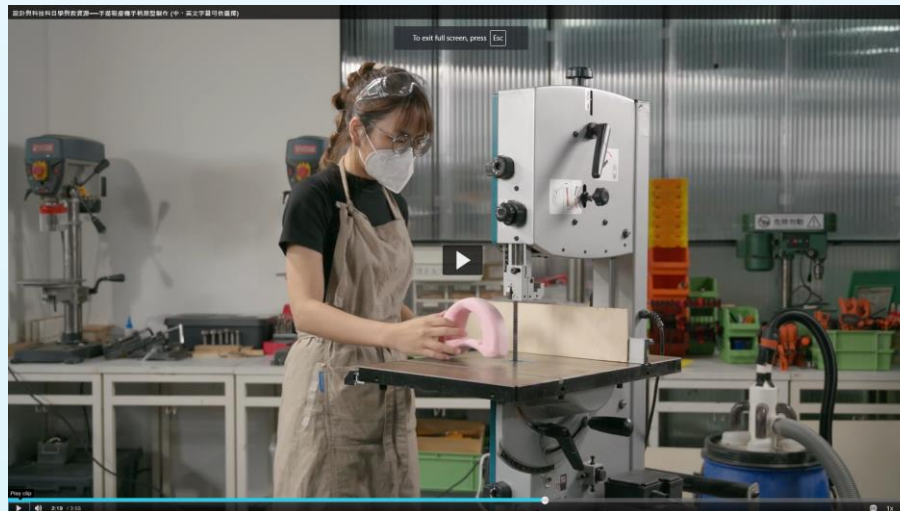
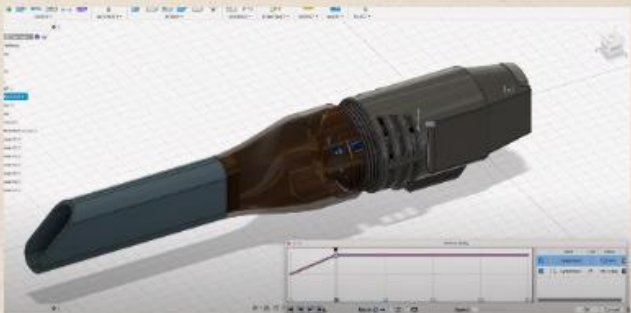
同學畫Marker有什麼困難呢？

## 第一節 手繪草圖的基本技巧及免費多功能 3D CAD 軟件

在設計和製作學習活動中有效使用  
「視覺化及電腦輔助設計應用」電子學習資源



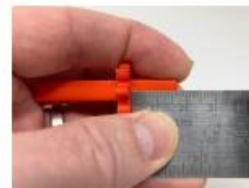
## 2 製作簡單的模擬機械運動



設計與科技 機械結構及機械元件 延長學習材料



7. 將「浮動小齒輪①+⑦」組件放「④右車架」的導向槽中，並確能自由滑動



8. 將「③長車軸」插入「④後軸齒輪 (8 齒)」，並確保緊固及一端長度為 16.5mm



9. 將較長的一端插入「④右車架」後軸孔，並確保能自由旋轉



10. 將「③左車架」和「④右車架」的前中後定位銷與定位孔緊固組合



11. 將八個「㊦車呔」安裝在四個「車輪」上



12. 安裝兩個車輪在後車軸上。

# Reference

- Curriculum and Assessment Guide of Design and Applied Technology (Secondary 4 - 6)  
[https://www.edb.gov.hk/attachment/en/curriculum-development/kla/technology-edu/curriculum-doc/DAT\\_CAGuide\\_e\\_2015.pdf](https://www.edb.gov.hk/attachment/en/curriculum-development/kla/technology-edu/curriculum-doc/DAT_CAGuide_e_2015.pdf)
- **For enquiries, please contact respective subject teacher(s) or class teacher(s) at school**



**Thank you**