

※ 考生請注意：本試題不可使用計算機。

請用 "英文" 於答案卷(卡)作答，於本試題紙上作答者或用中文作答，不予計分。

I. Digital Media (34%)

Visualizing Personal Data in Two Ways

1. Pick a personal activity that you can collect data in your daily life. Create a data sheet. The data set needs to contain at least 20 data fields. The more data, the better. (4%)
2. First, visualize the data set creatively and clearly with a 2D diagram. (10%)
3. Second, pick a digital fabrication method and visualize the data with it. Use text and drawings to explain your visualization. (10%)
4. Explain whether or not you found implicit meaning behind the picked personal activity by visualizing the data. If yes, what have you found? (Use the visualizations to support your findings.) (10%)

II. Design (50%)

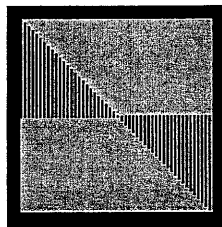
The Hybrid

5. Pick two items which are used for different purposes and unrelated to each other from every perspective. Describe them and explain how they are not related to each other. (5%)
6. The design: Combine the items together as one object. Draw at least **ten** prototypes, and use text to explain the concept(s) of each prototype. The more difference between them, the better. (20%)
7. Pick the most unexpected combination and finalize the design with text and drawings explaining your design in terms of the setting, instructions, its purpose, and its name. (8%)
8. Use text or drawings to show how you combine technically A & B in the final design. (8%)
9. Explain how **new and unexpected** your final design is compared to the other 9 (or more) prototypes you initially sketched. (9%)

III. Coding (16%)

Within a 100 (h) x 100 (w) window, the following code in Processing will produce 50 lines on the display window. The background colour is 200. A, B, C and D are four blank spaces. Complete the code by filling in these black spaces:

```
A (int i=0; i<100; i=i+2){
Line (B, C, D ,50);
}
```



- A:
- B:
- C:
- D: