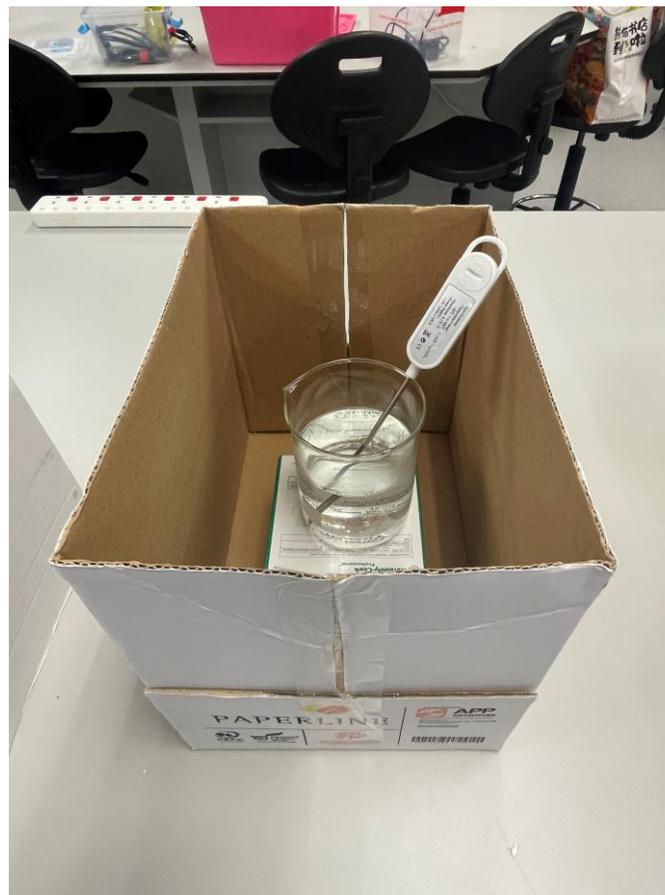
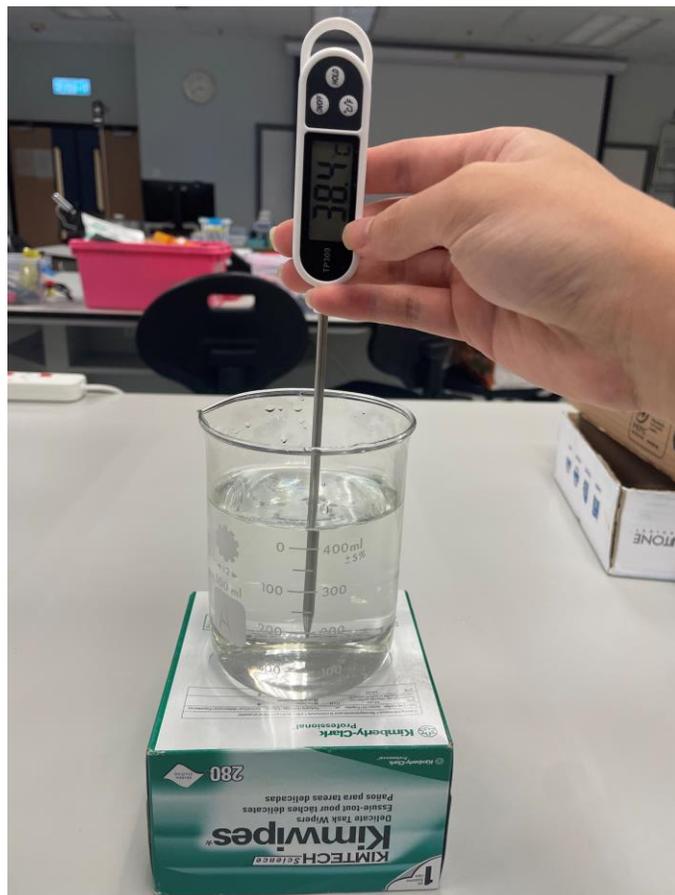


2024-2025 Quality Education Fund Thematic Network - Tertiary Institutes
Progressive Development of STEAM Literacy through STEAM
Education and Self-directed Learning
透過STEAM教育自主學習有序發展STEAM素養

動物保溫箱

神召會康樂中學

測試方式



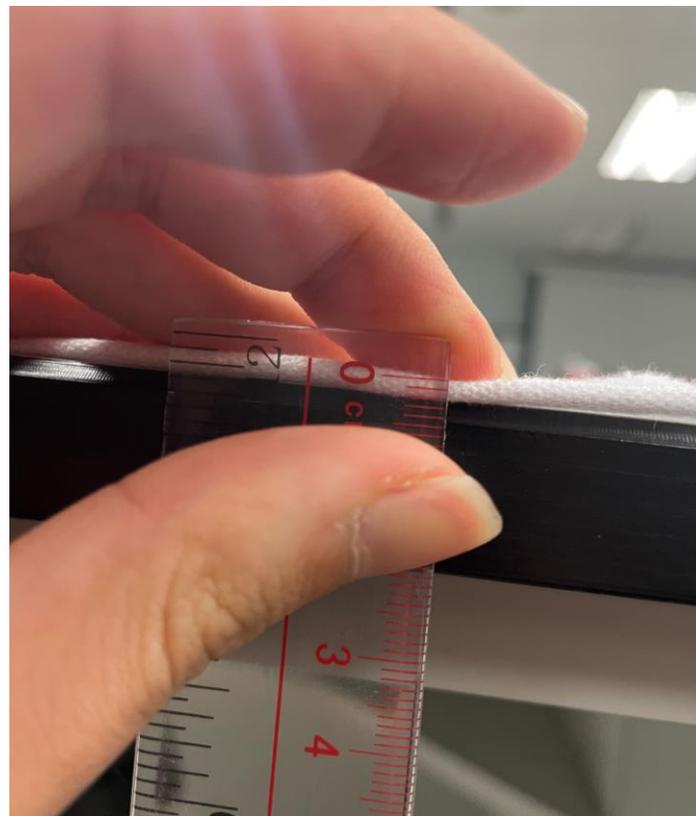
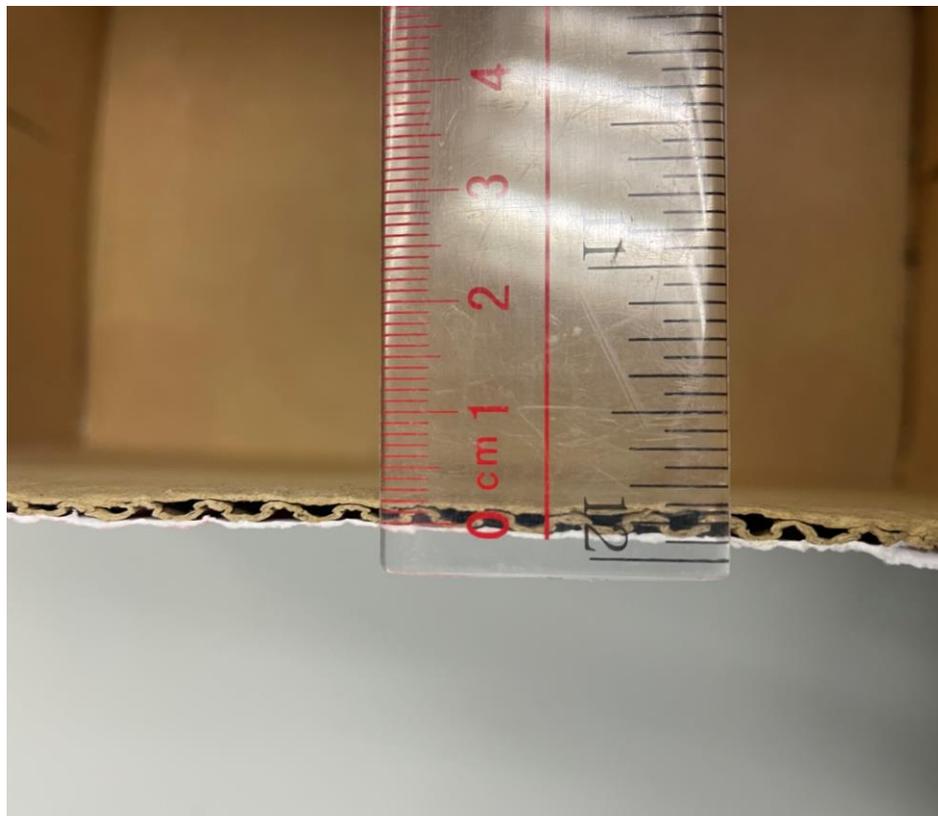
不同層數紙箱



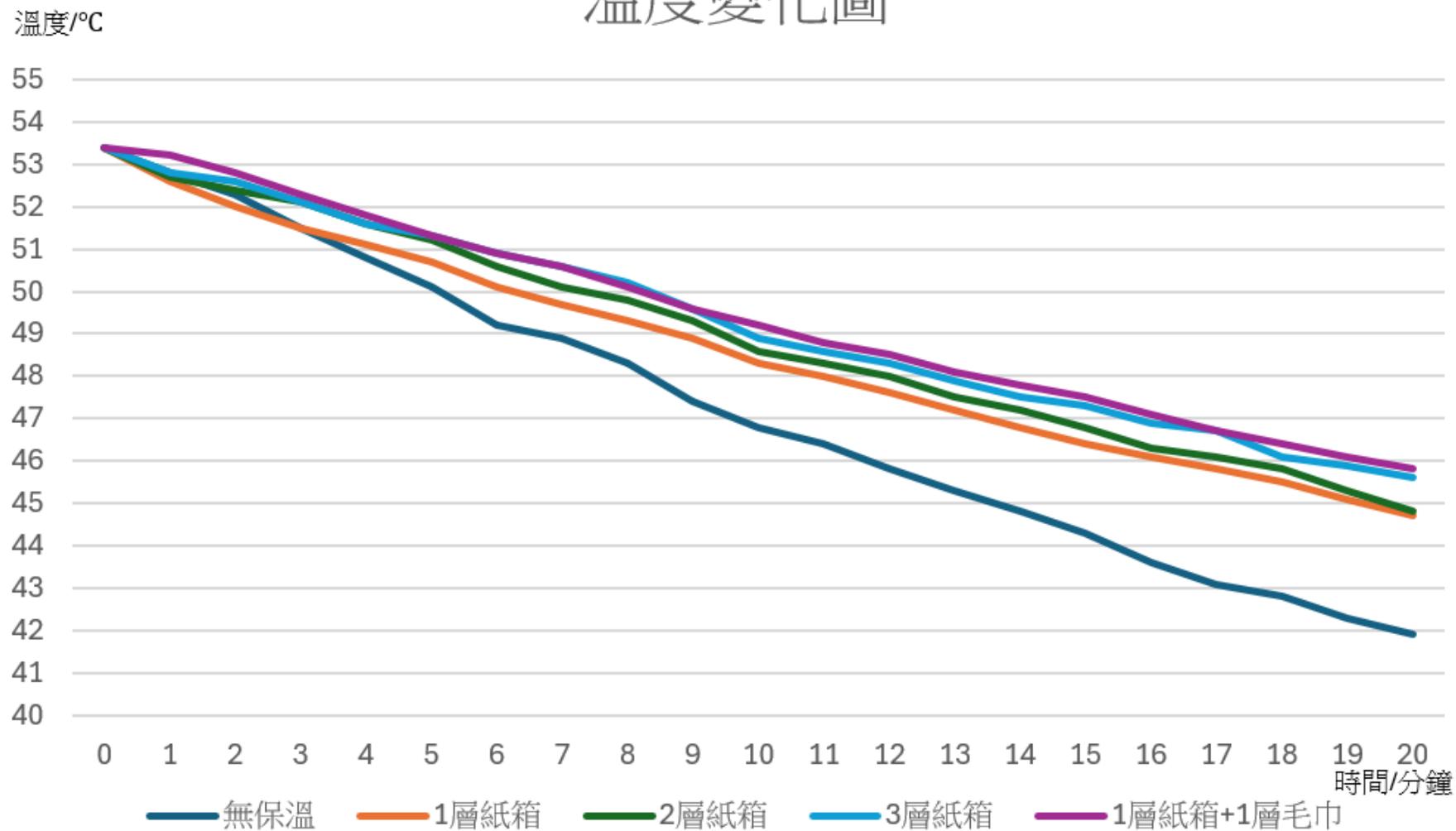
紙箱和毛巾



紙箱&毛巾厚度 (0.2cm)



溫度變化圖



Time/min	無保溫	1層紙箱	2層紙箱	3層紙箱	1層紙箱+1層毛巾
0	53.4	53.4	53.4	53.4	53.4
1	52.8	52.6	52.7	52.8	53.2
2	52.3	52	52.4	52.6	52.8
3	51.5	51.5	52.1	52.1	52.3
4	50.8	51.1	51.6	51.6	51.8
5	50.1	50.7	51.2	51.3	51.3
6	49.2	50.1	50.6	50.9	50.9
7	48.9	49.7	50.1	50.6	50.6
8	48.3	49.3	49.8	50.2	50.1
9	47.4	48.9	49.3	49.6	49.6
10	46.8	48.3	48.6	48.9	49.2
11	46.4	48	48.3	48.6	48.8
12	45.8	47.6	48	48.3	48.5
13	45.3	47.2	47.5	47.9	48.1
14	44.8	46.8	47.2	47.5	47.8
15	44.3	46.4	46.8	47.3	47.5
16	43.6	46.1	46.3	46.9	47.1
17	43.1	45.8	46.1	46.7	46.7
18	42.8	45.5	45.8	46.1	46.4
19	42.3	45.1	45.3	45.9	46.1
20	41.9	44.7	44.8	45.6	45.8

结论：

- 1.相同條件下，紙箱厚度越厚，保溫效果越好。
- 2.相同條件下，毛巾的保溫效果比紙箱效果好。
- 3.實驗發現，1層0.2cm厚度的紙箱加1層0.2cm厚度的毛巾保溫效果大於3層0.2cm厚度的紙箱。
- 4.實驗四分鐘左右，不同層數紙箱的溫度差異較為明顯。