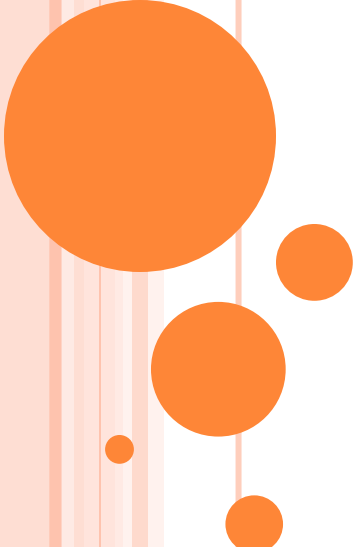
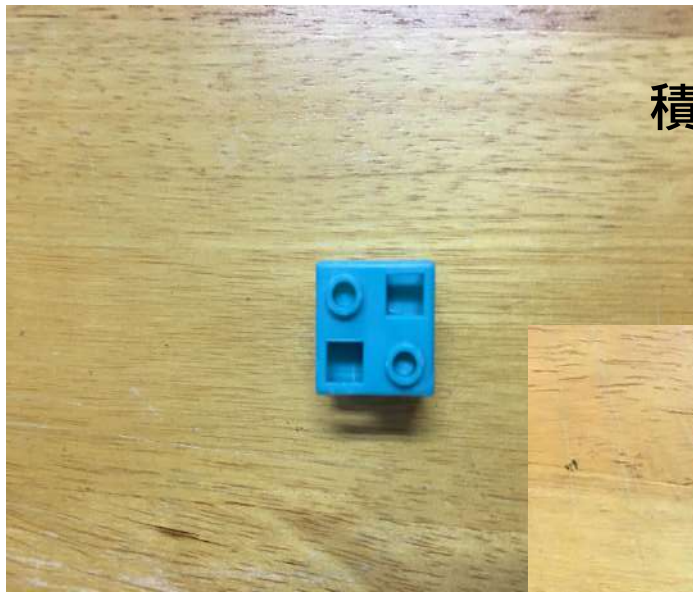


平方和公式圖解

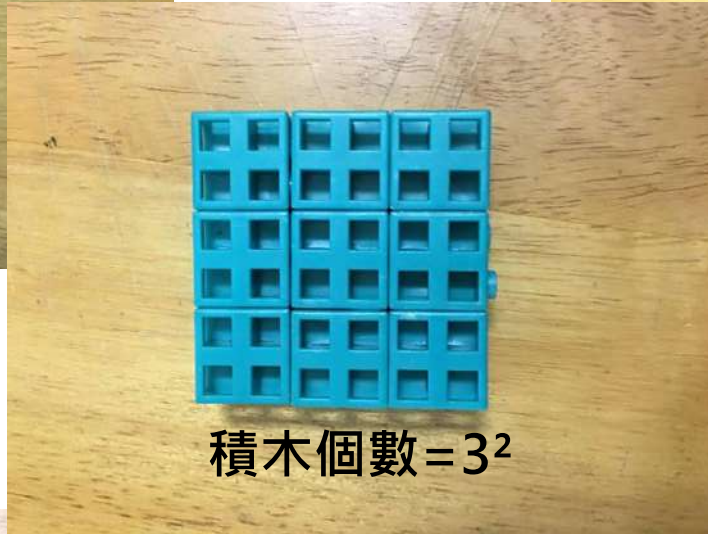
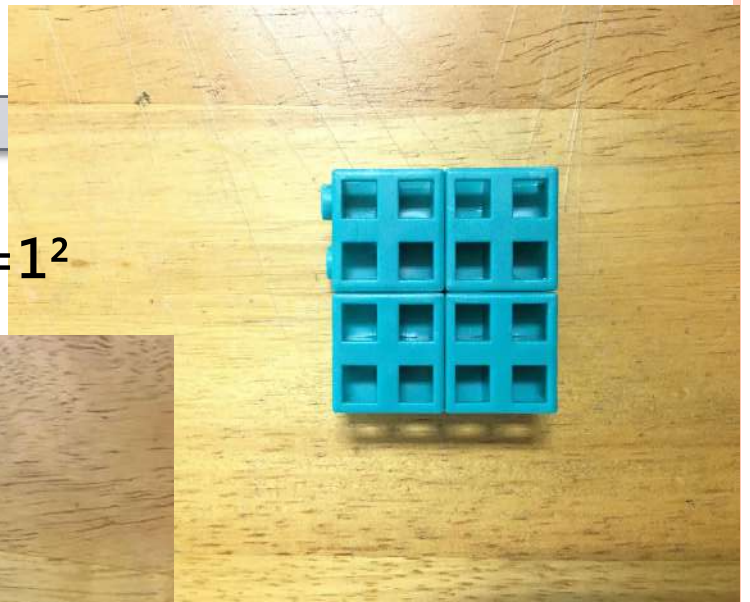

$$\sum_{k=1}^n k^2$$

$$=1^2+2^2+3^2+\dots+n^2=\frac{n(n+1)(2n+1)}{6}$$

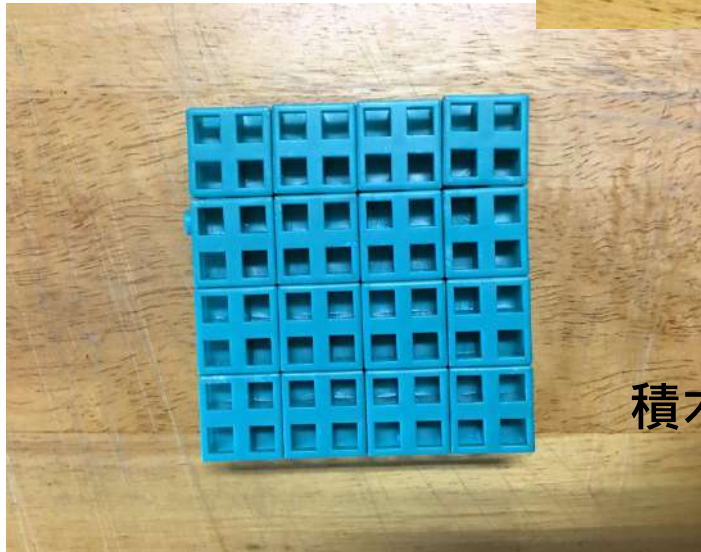


積木個數 = 2^2 ←

→ 積木個數 = 1^2

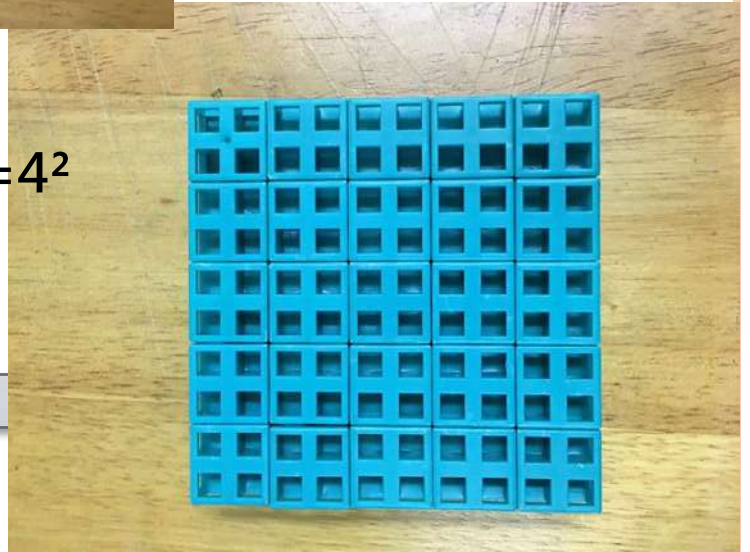


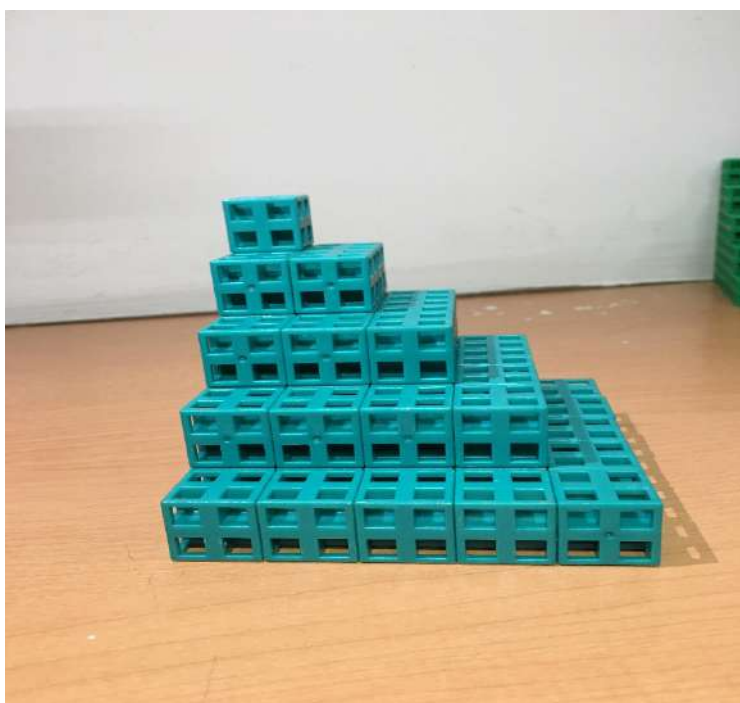
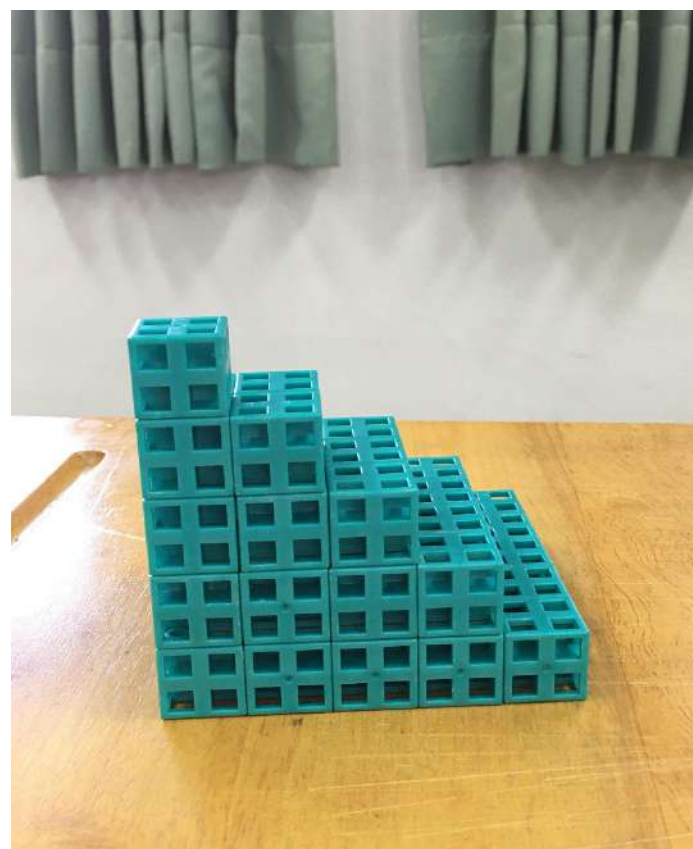
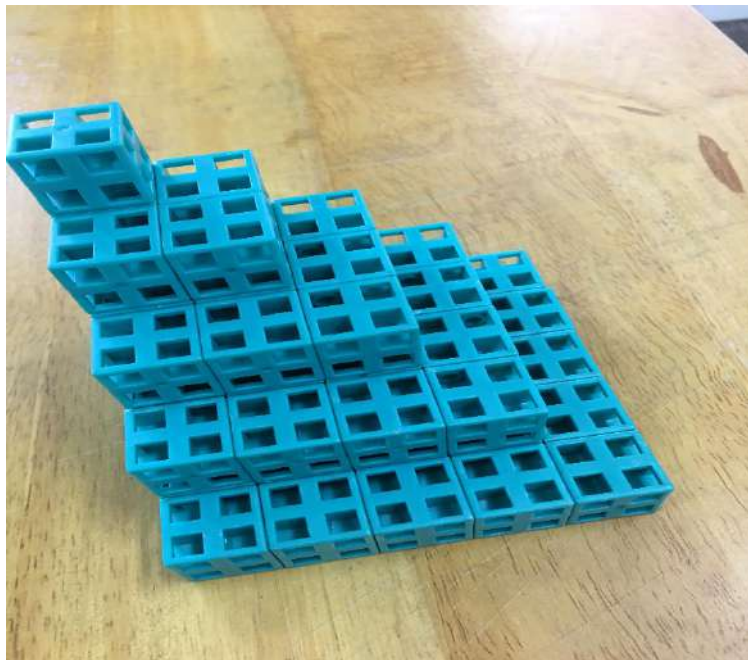
積木個數 = 3^2



→ 積木個數 = 4^2

積木個數 = 5^2 ←

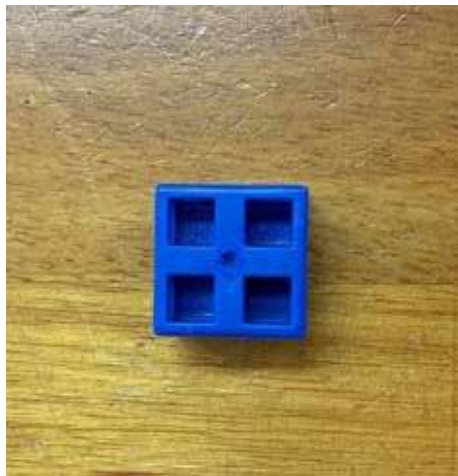




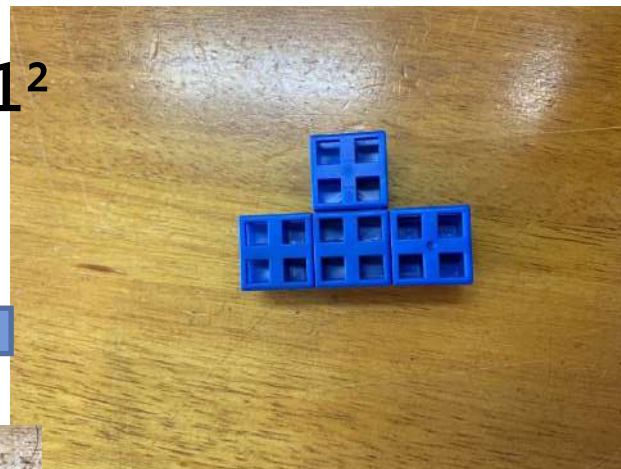
積木數量 =

$$1^2 + 2^2 + 3^2 + 4^2 + 5^2$$

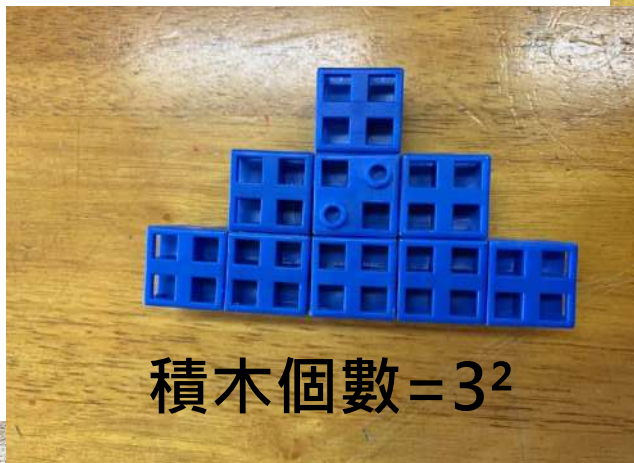




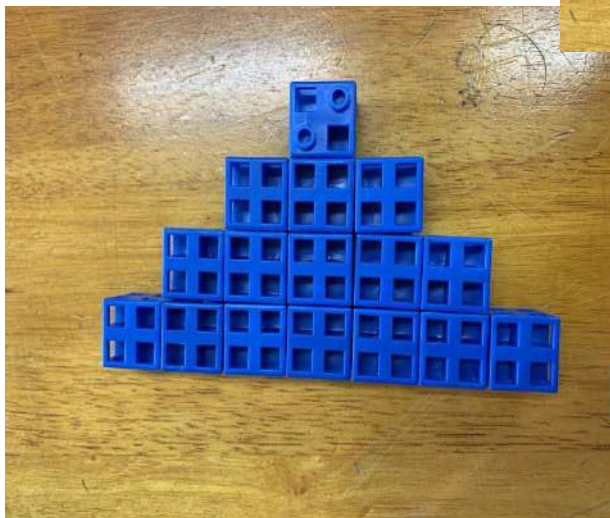
→ 積木個數 = 1^2



積木個數 = 2^2 ←

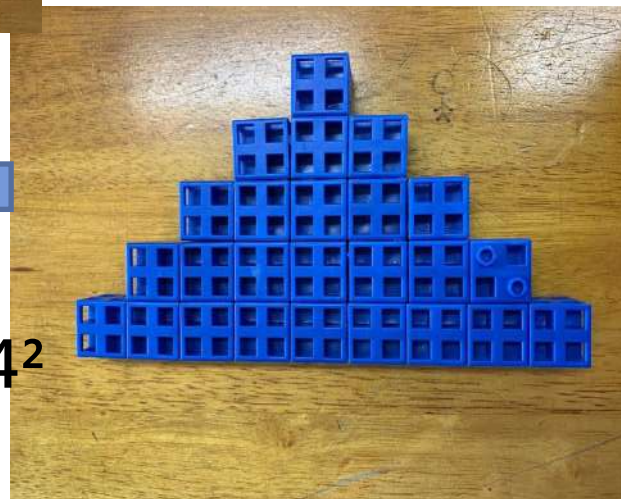


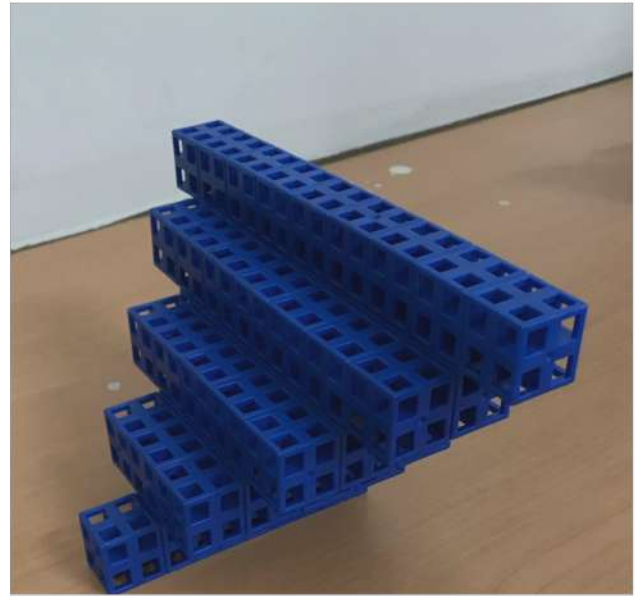
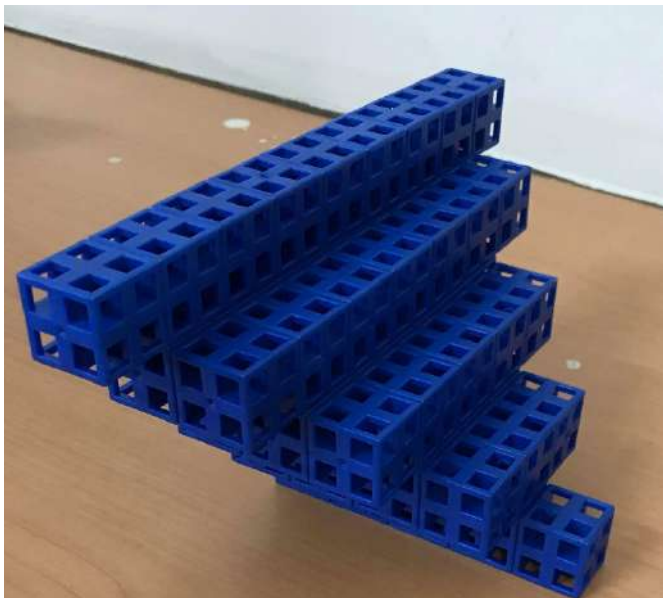
積木個數 = 3^2



積木個數 = 5^2 ←

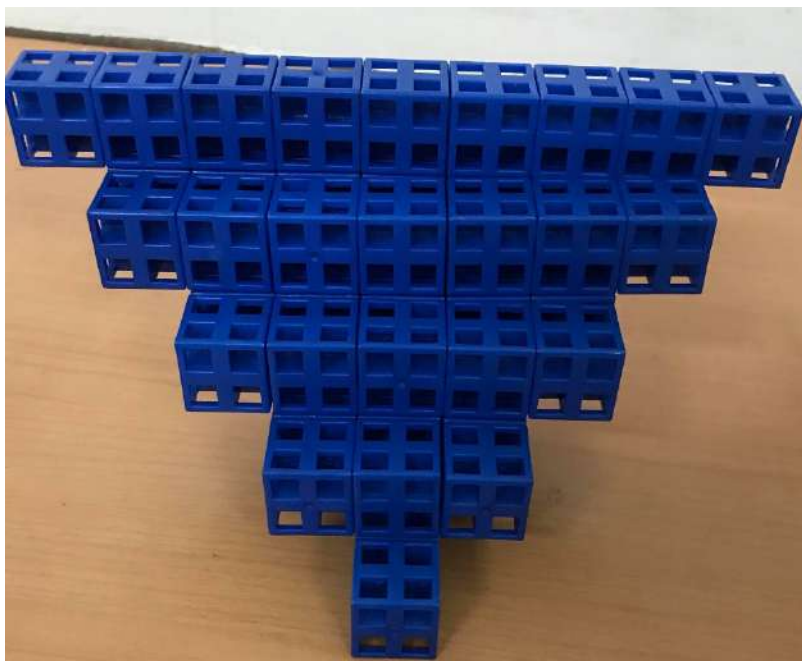
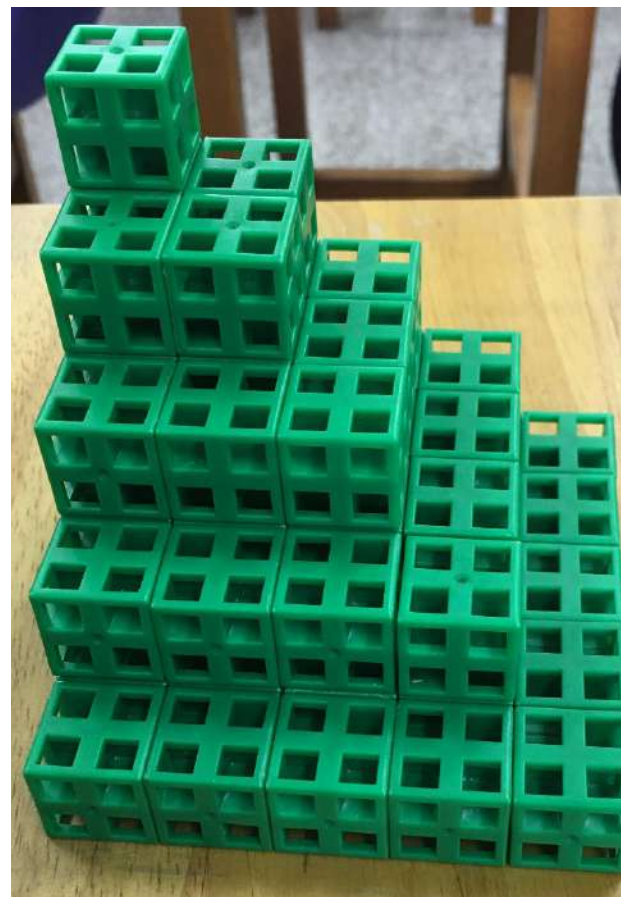
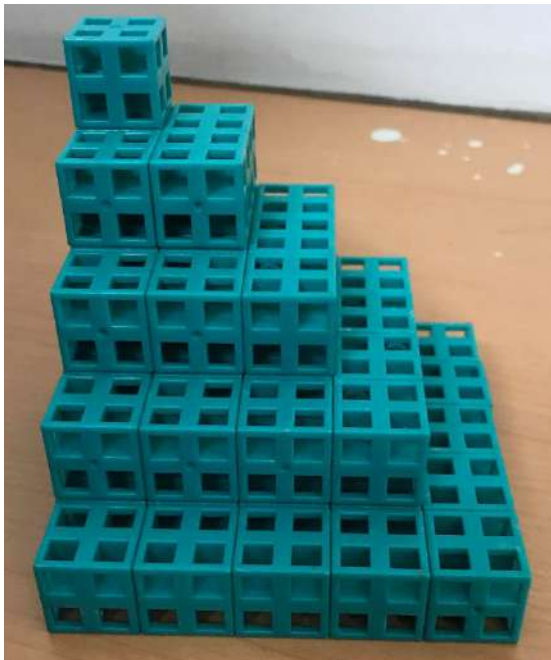
→ 積木個數 = 4^2





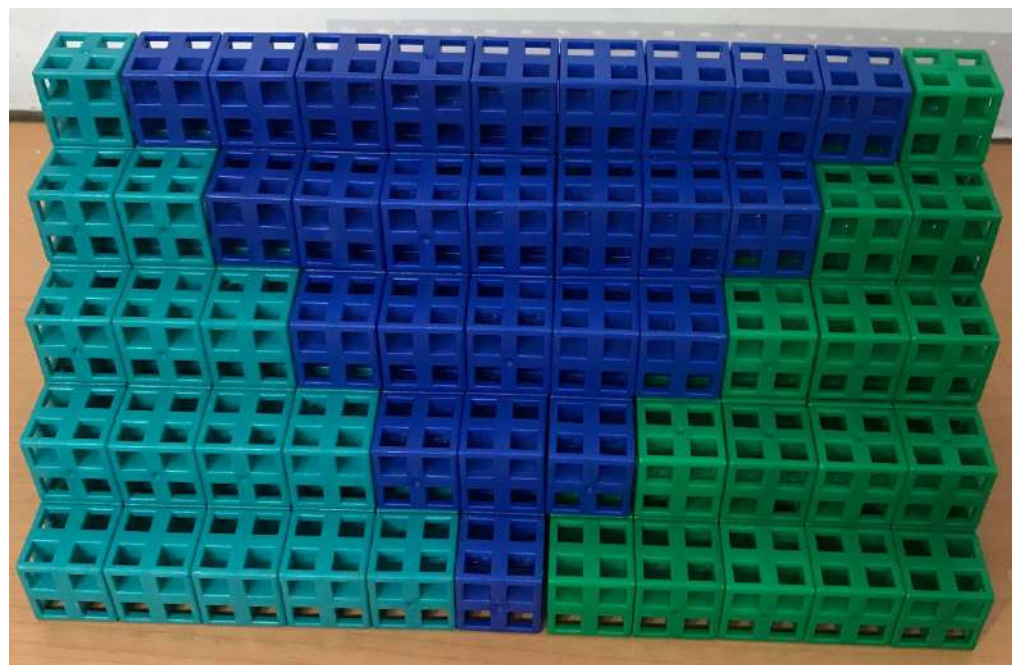
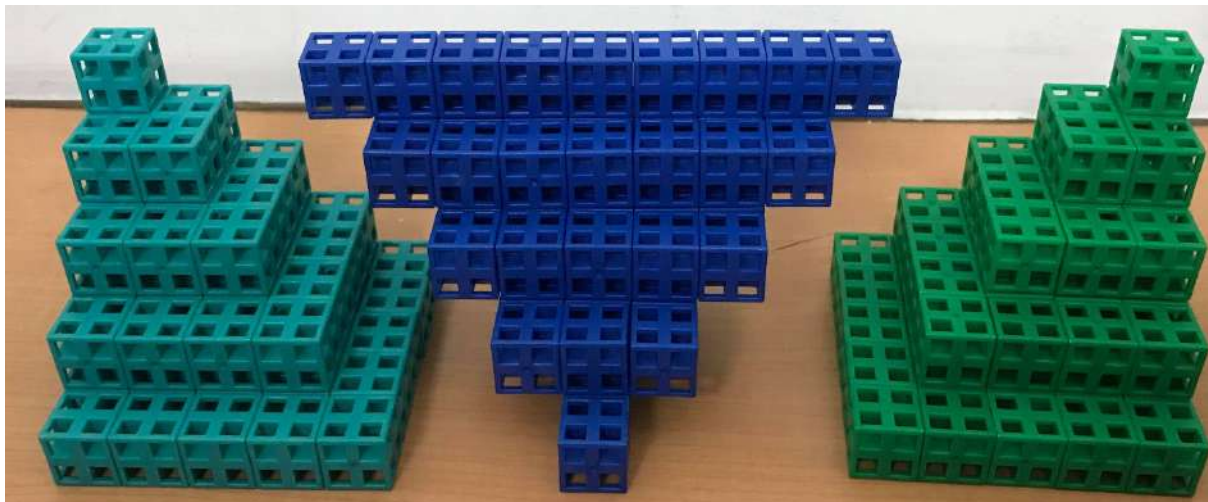
積木個數 =
 $1^2 + 2^2 + 3^2 + 4^2 + 5^2$





每一張圖的積木個數 =
 $1^2 + 2^2 + 3^2 + 4^2 + 5^2$





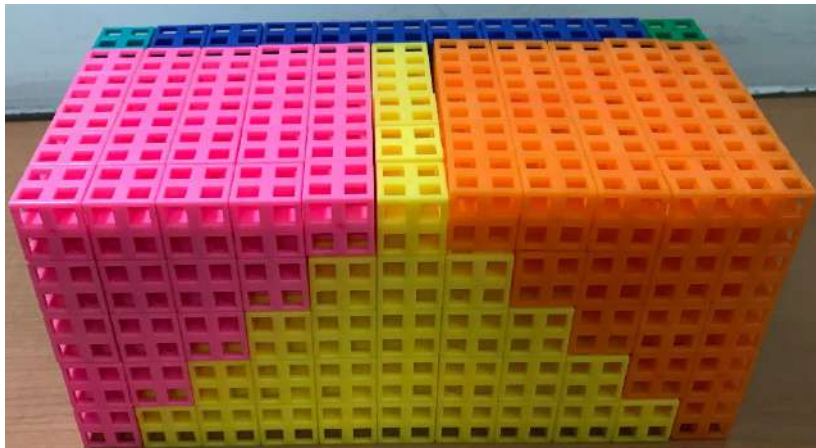
$$\text{積木個數} = 3 \times (1^2 + 2^2 + 3^2 + 4^2 + 5^2)$$



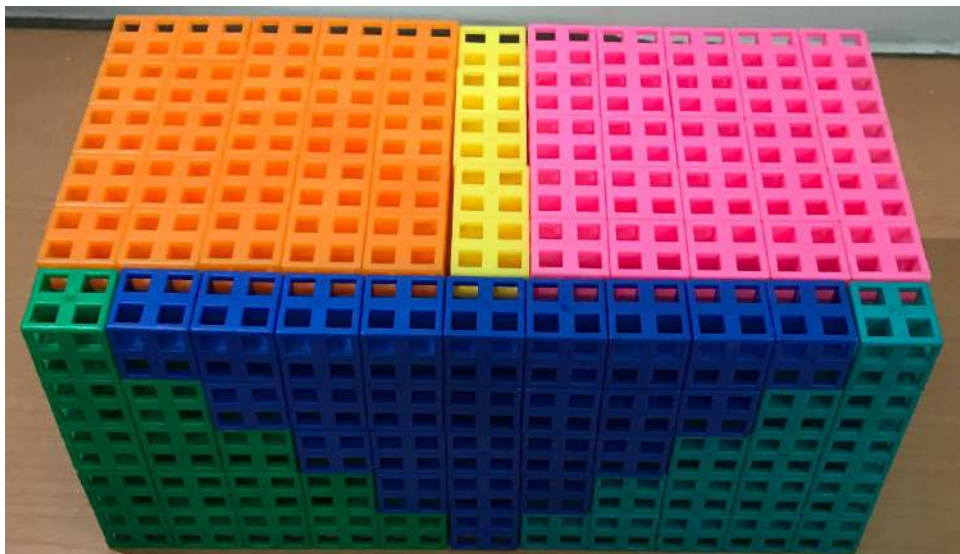


$$\text{積木個數} = 6 \times (1^2 + 2^2 + 3^2 + 4^2 + 5^2)$$





- 長 = $2 \times 5 + 1$
- 寬 = $5 + 1$
- 高 = 5



積木個數 =
 $5 \times (4 + 1) \times (2 \times 4 + 1)$



- 積木個數 = $6 \times (1^2 + 2^2 + 3^2 + 4^2 + 5^2)$
- 積木個數 = $5 \times (5+1) \times (2 \times 5 + 1)$
- $\rightarrow 6 \times (1^2 + 2^2 + 3^2 + 4^2 + 5^2) = 5 \times (5+1) \times (2 \times 5 + 1)$

○ 所以 \rightarrow

- $1^2 + 2^2 + 3^2 + 4^2 + 5^2 = \frac{5(5+1)(2 \times 5 + 1)}{6}$

$$\sum_{k=1}^n k^2$$

$$= 1^2 + 2^2 + 3^2 + \dots + n^2 = \frac{n(n+1)(2n+1)}{6}$$



組員:6、7、13、17、25

- 組積木:
- 拍攝:
- 製作報告:

