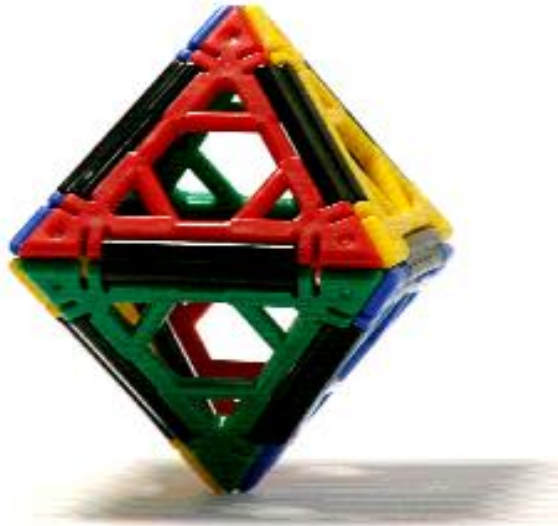


六年級

學習歷程檔案

探究正八面體紙樣



學習目標

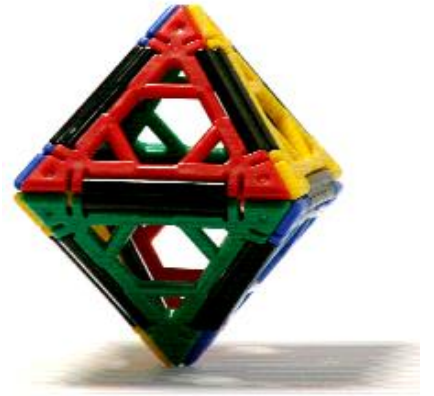
透過動手操作，探究正八面體的摺紙圖樣

有系統嘗試不同的組合

合作學習，共享自學成果

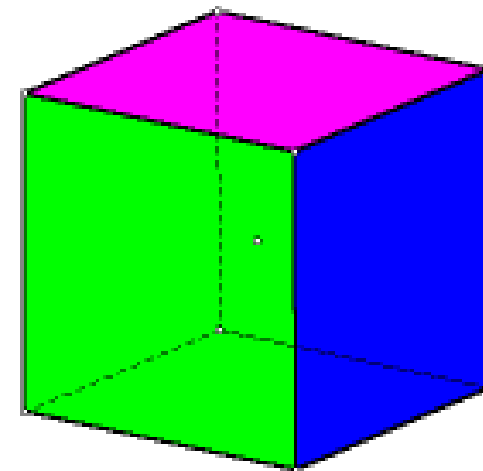
甚麼是正八面體？

- 八個面
- 每個面都是等邊三角形（正三角形）
- 每個多面角都是四面角

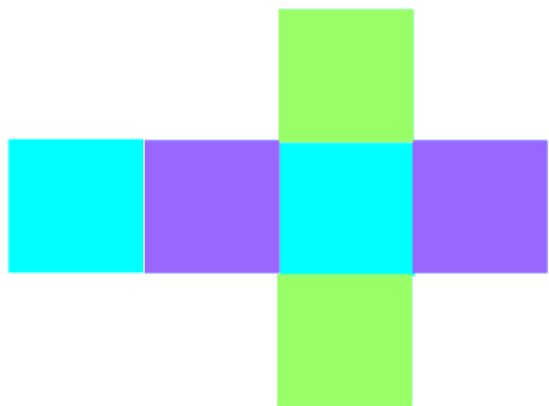


已有知識考考你：猜猜是哪種立體圖形？

- 六個面
- 每個面都是正方形
- 每個多面角都是三面角



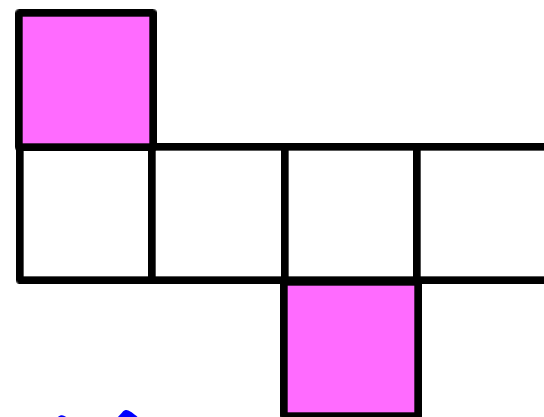
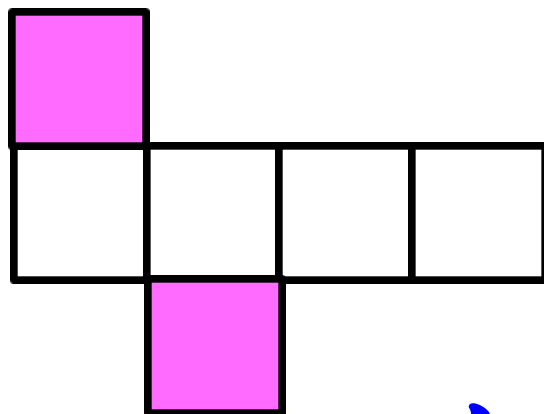
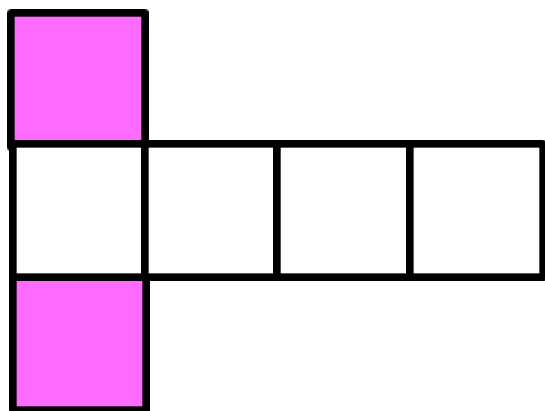
正方體



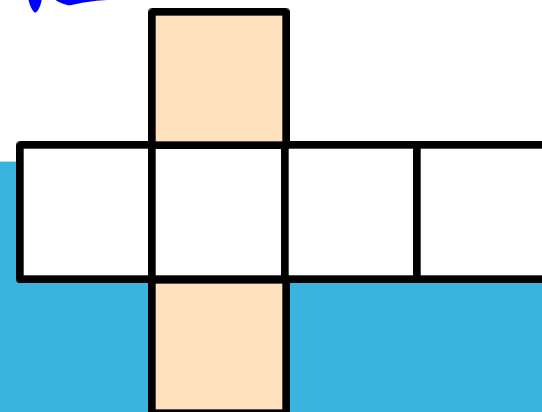
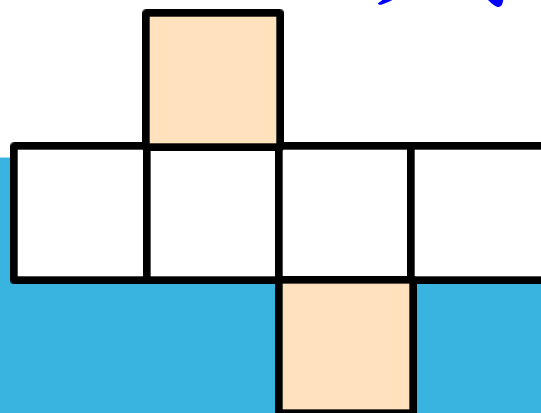
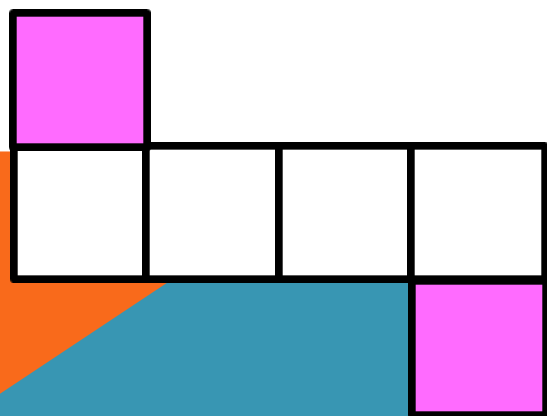
正方體紙樣重溫

能摺成正方體的紙樣

4個連體 + (上下) 1-4-1

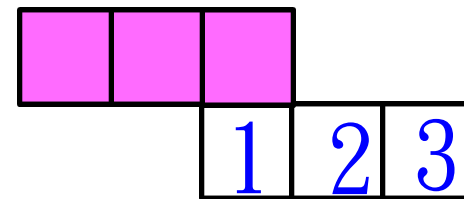
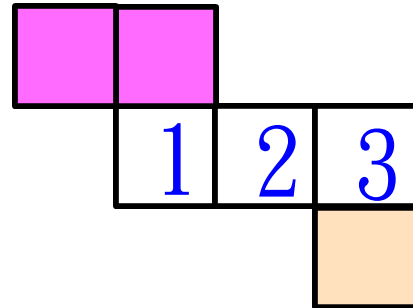
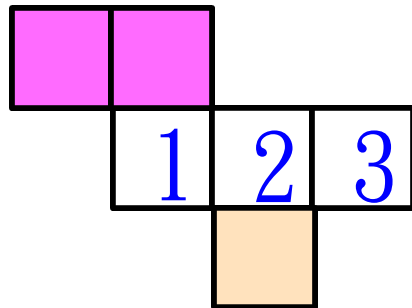
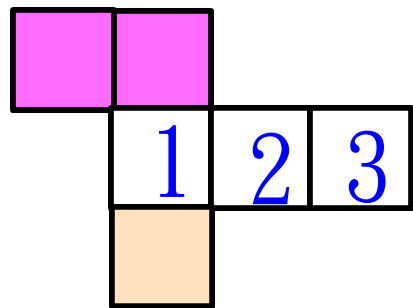


共 6 種



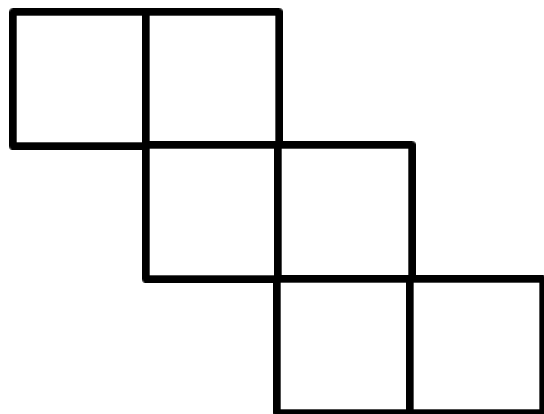
能摺成正方體的紙樣

3個連體 + (二一或一二或樓梯)



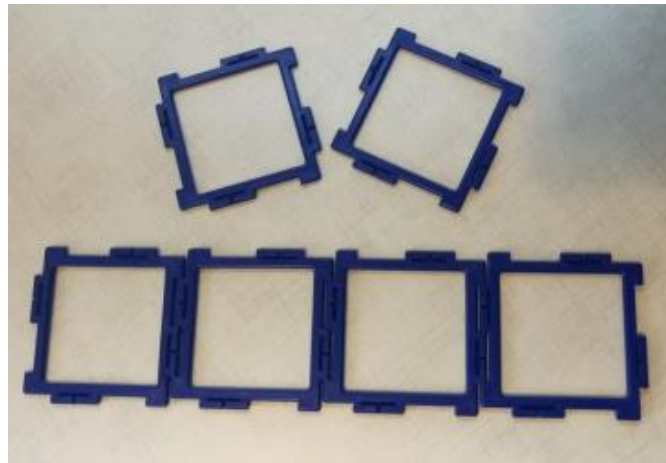
能摺成正方體的紙樣

2連體



我們曾經有系統地

動手嘗試



不同**正方體**紙樣組合

有系統嘗試 八面體紙樣組合



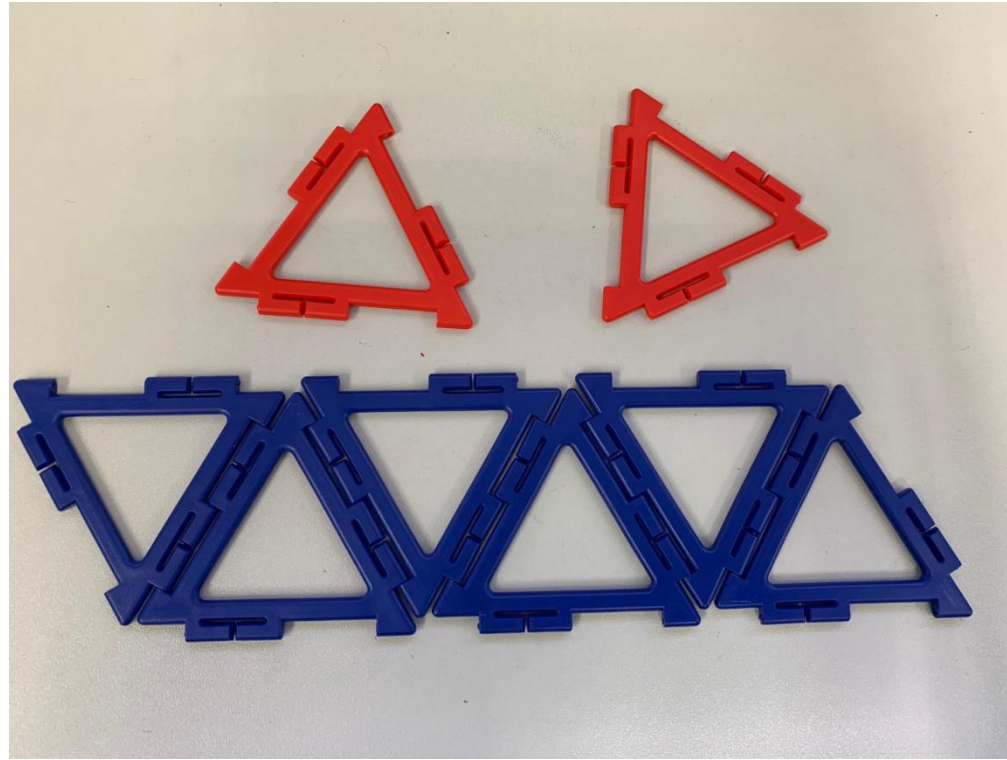
探究6個並排的面，
能否摺成正八面體？

兩兩討論

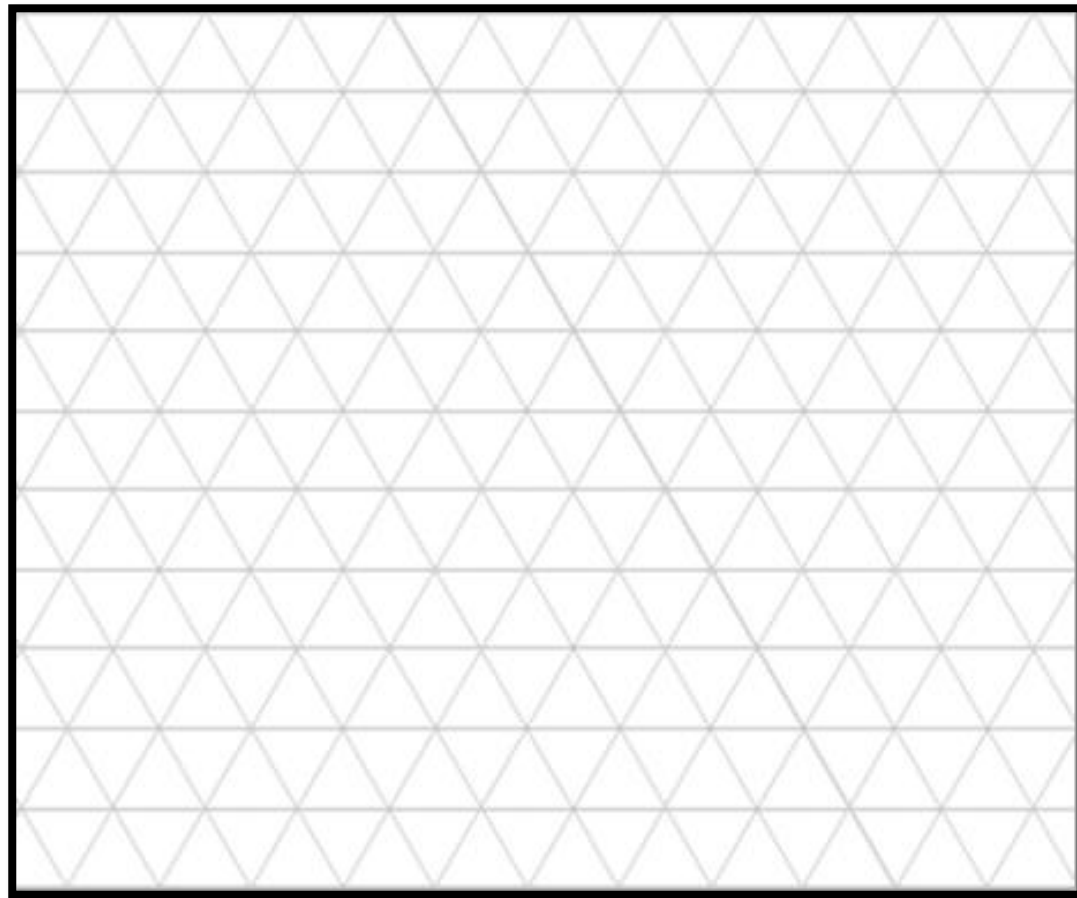
動手操作，驗證想法

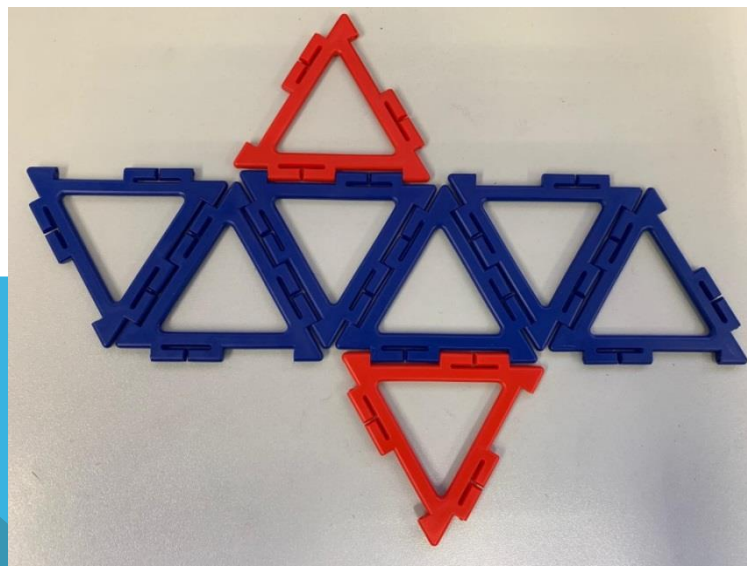
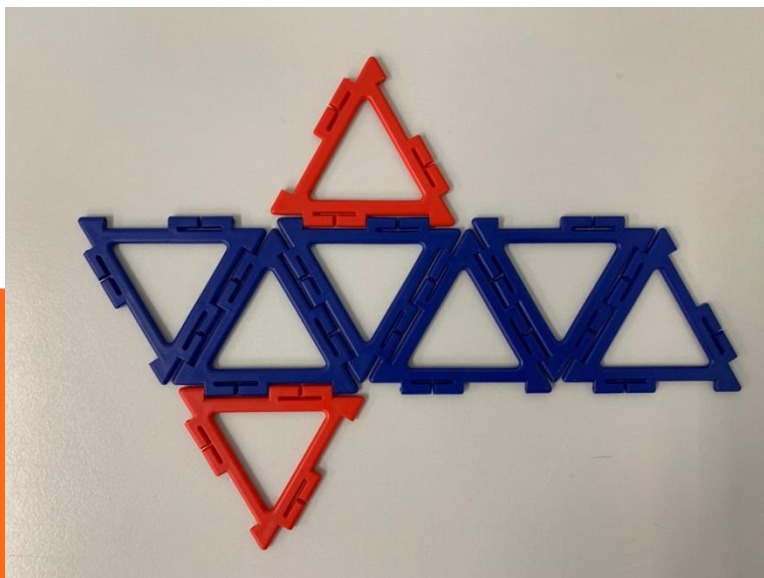
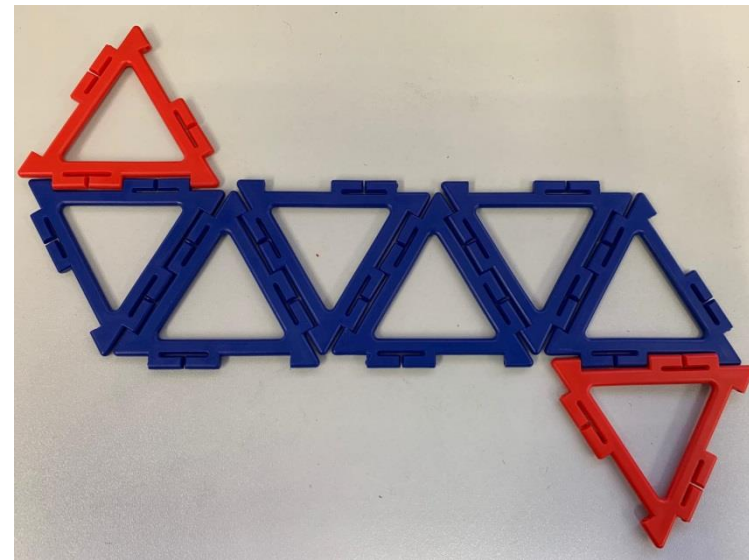
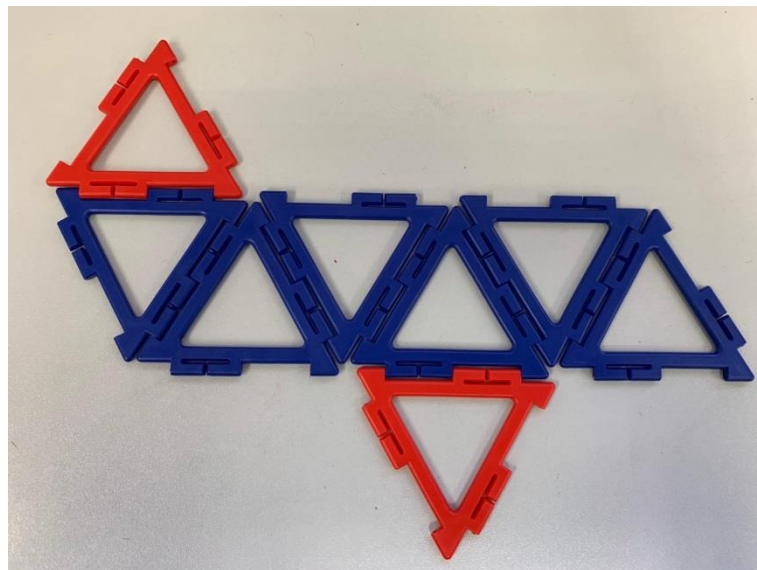
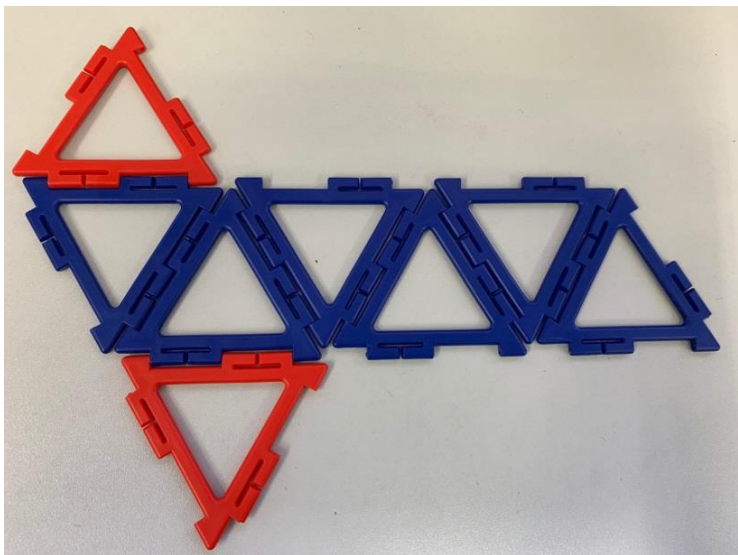
2人一組，

1) 利用模型組件，拼出可以摺成八面體的不同組合



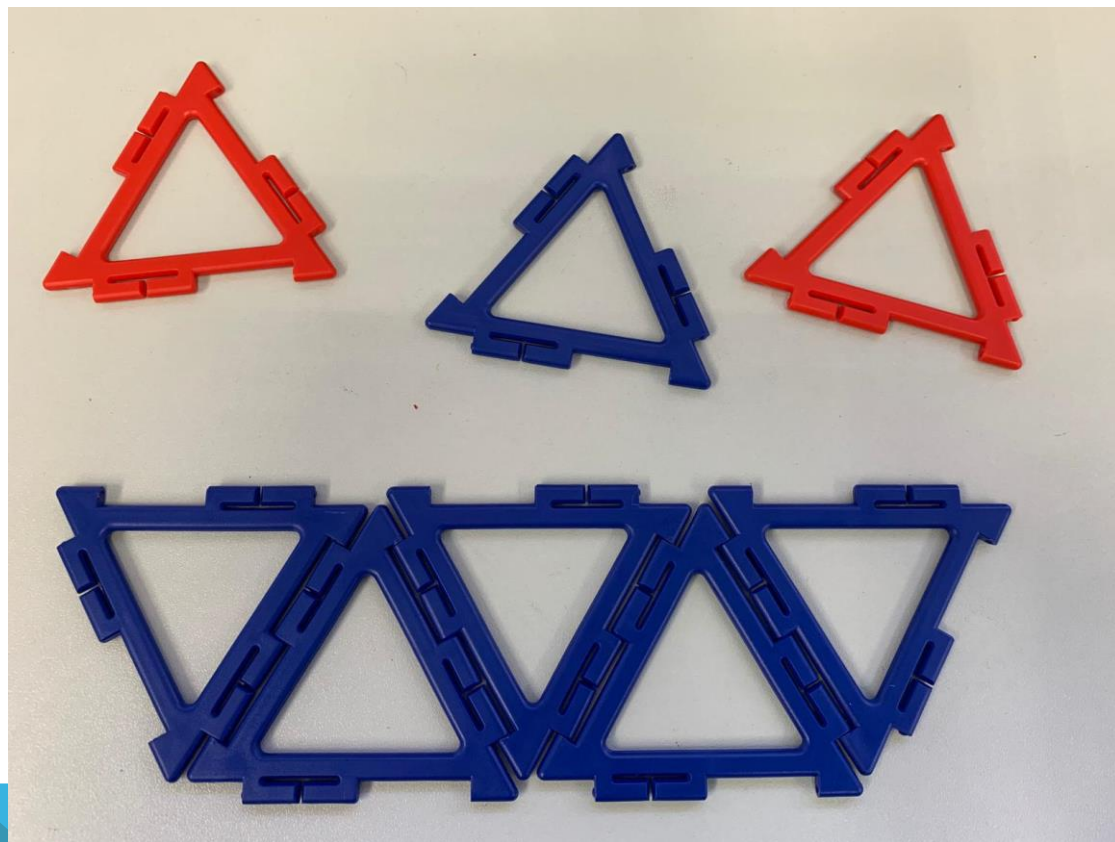
2) 用間尺畫出紙樣，
把不同的組合畫在學習歷程冊內。
(P. 5-6)



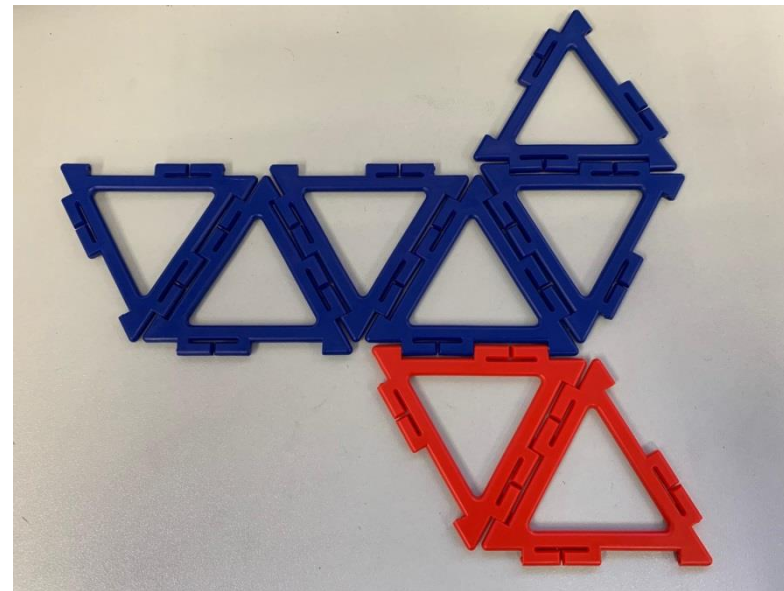
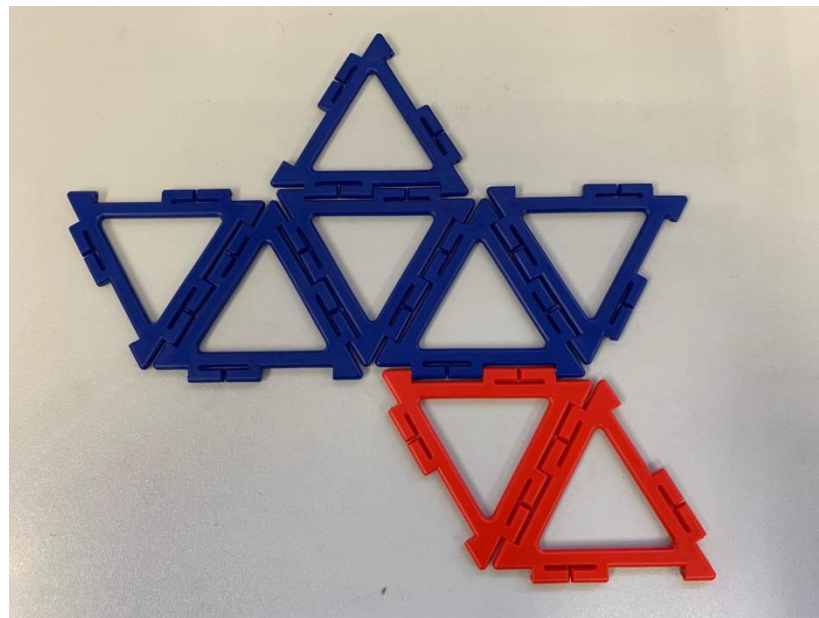
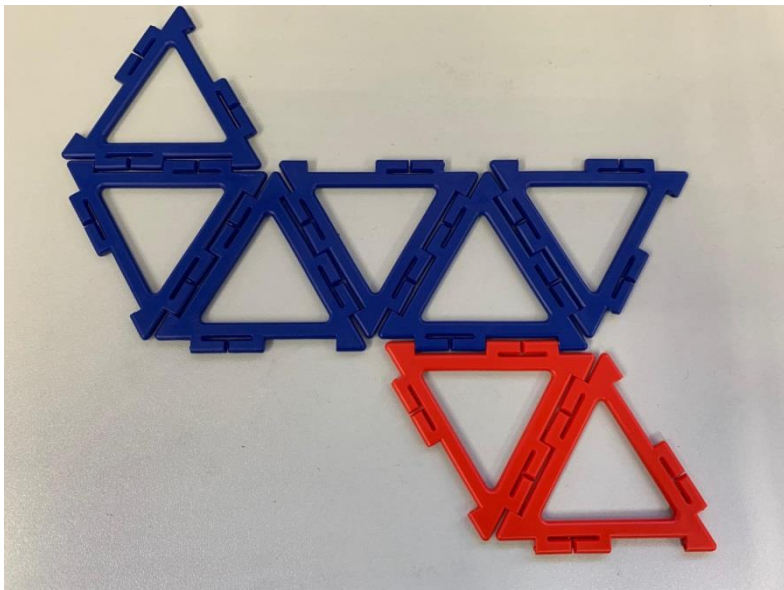


共5種

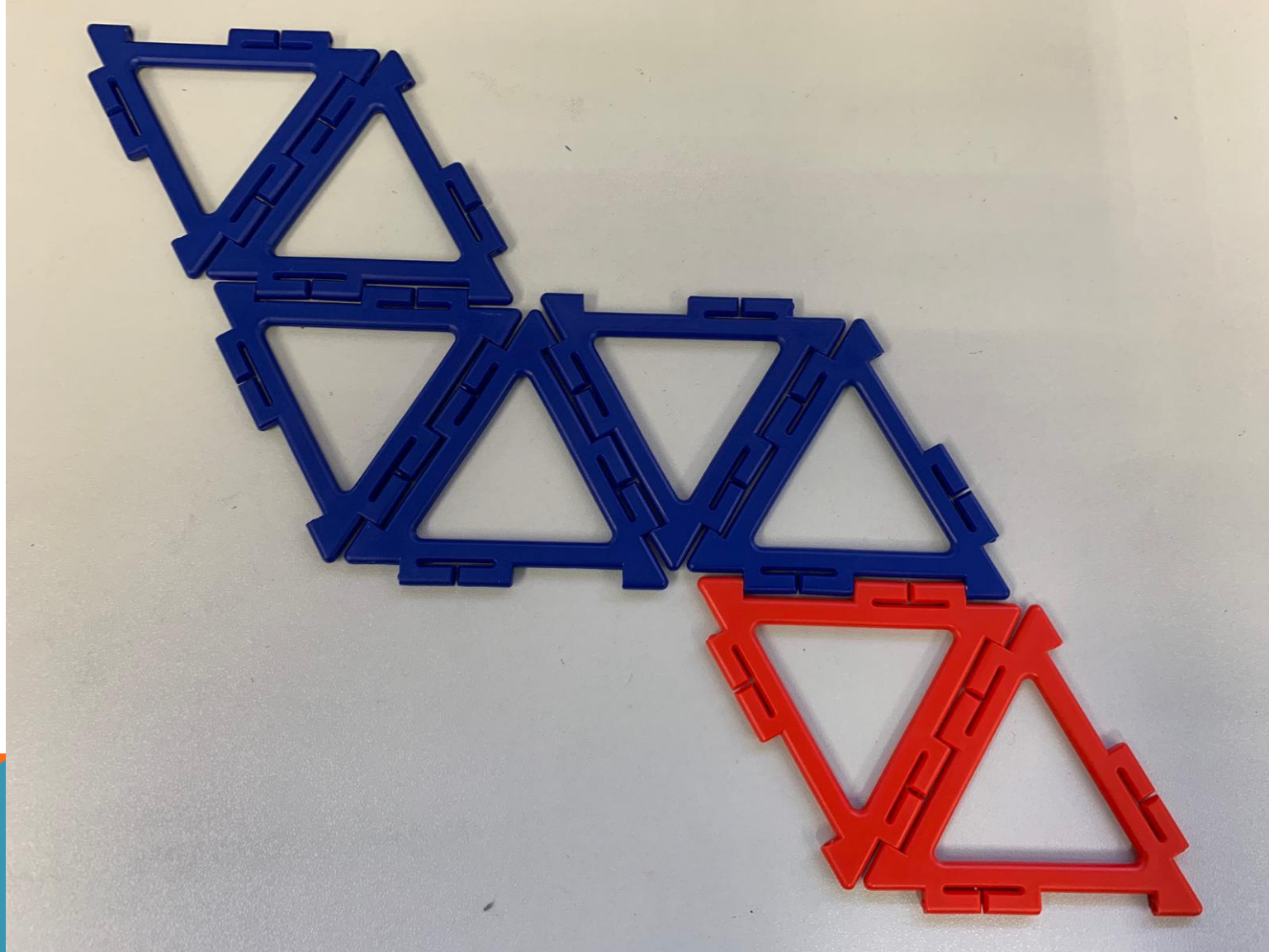
5連體，又有多少組合的紙樣可摺成正八面體？



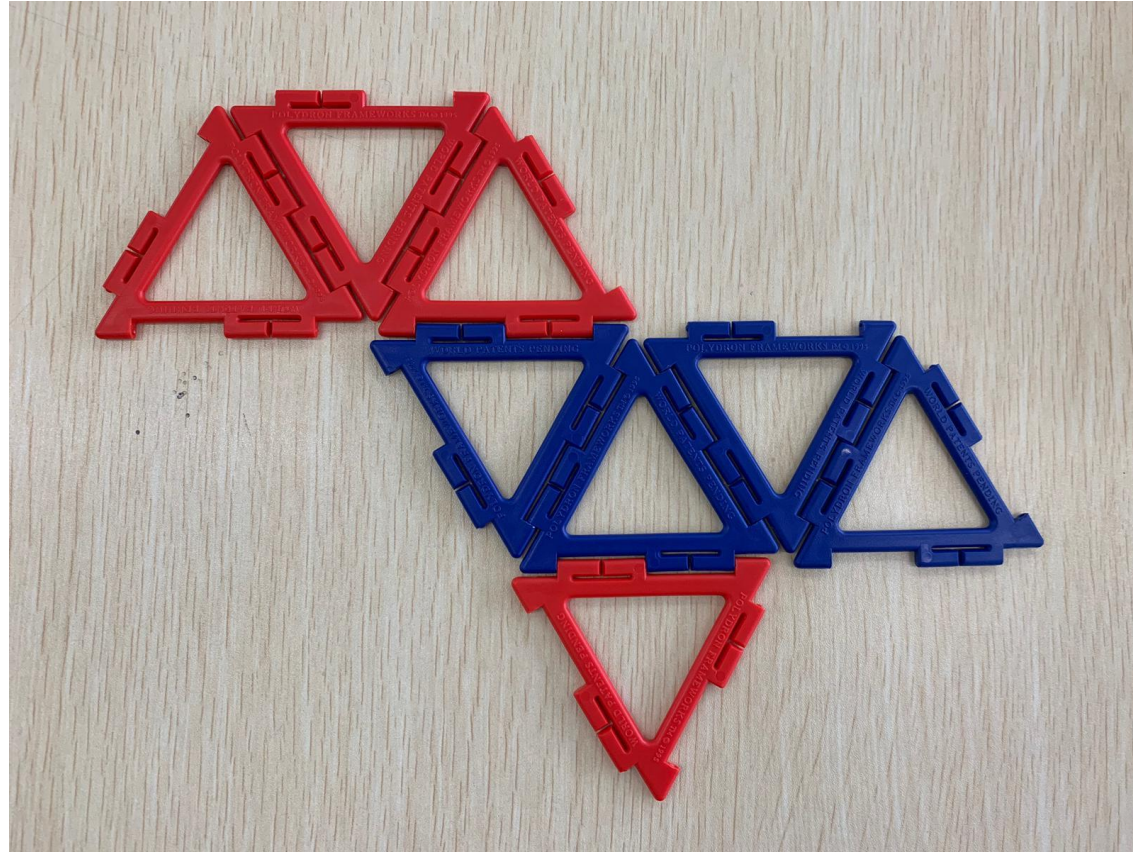
5連體



4連體



4連體



還有其他紙樣組合嗎？



總結

這節課你學會了甚麼？

