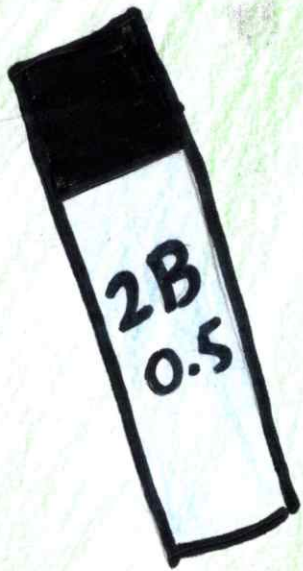


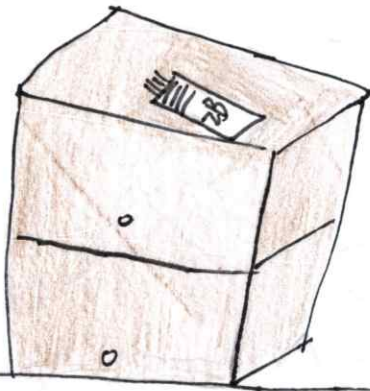
++
心

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心

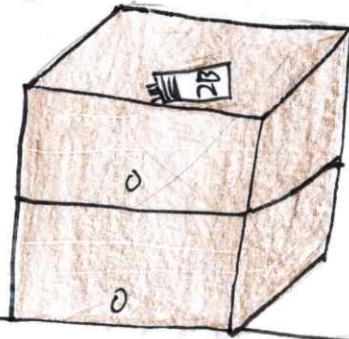
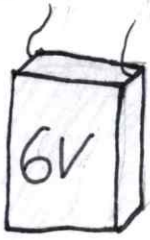
向火容



實驗室裡...



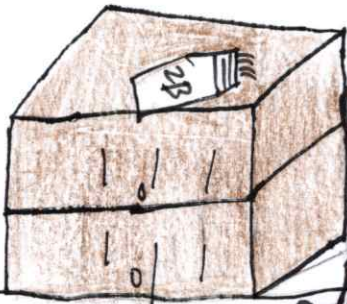
實驗室中
NO 打擾



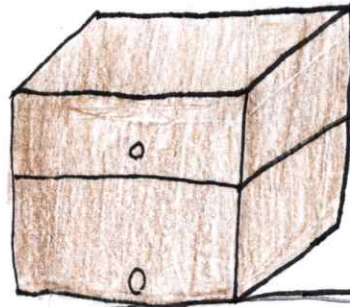
Ya!
實驗結束了!



① ②
③ ④

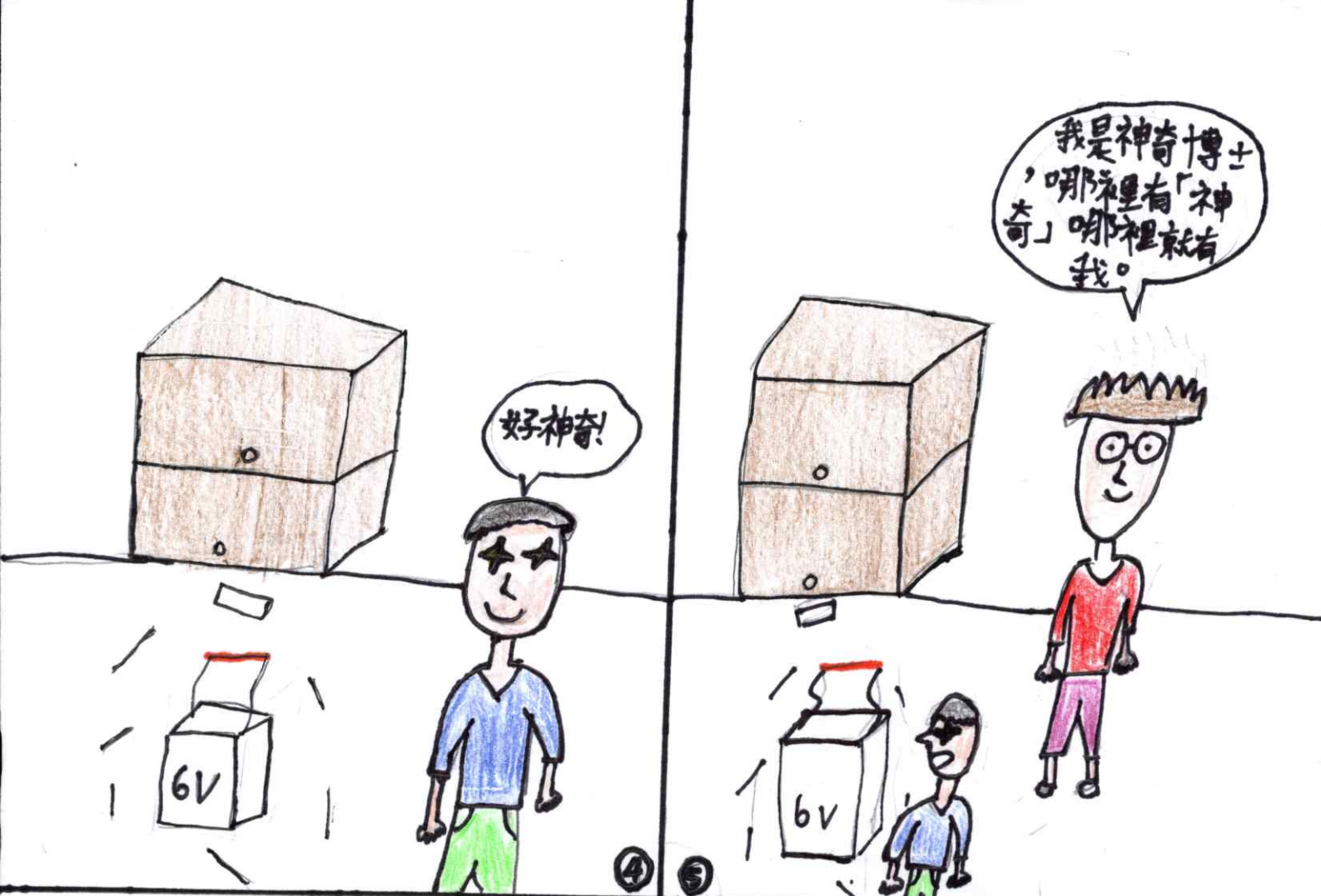


實驗室中
啊!!!
撞到頭了!

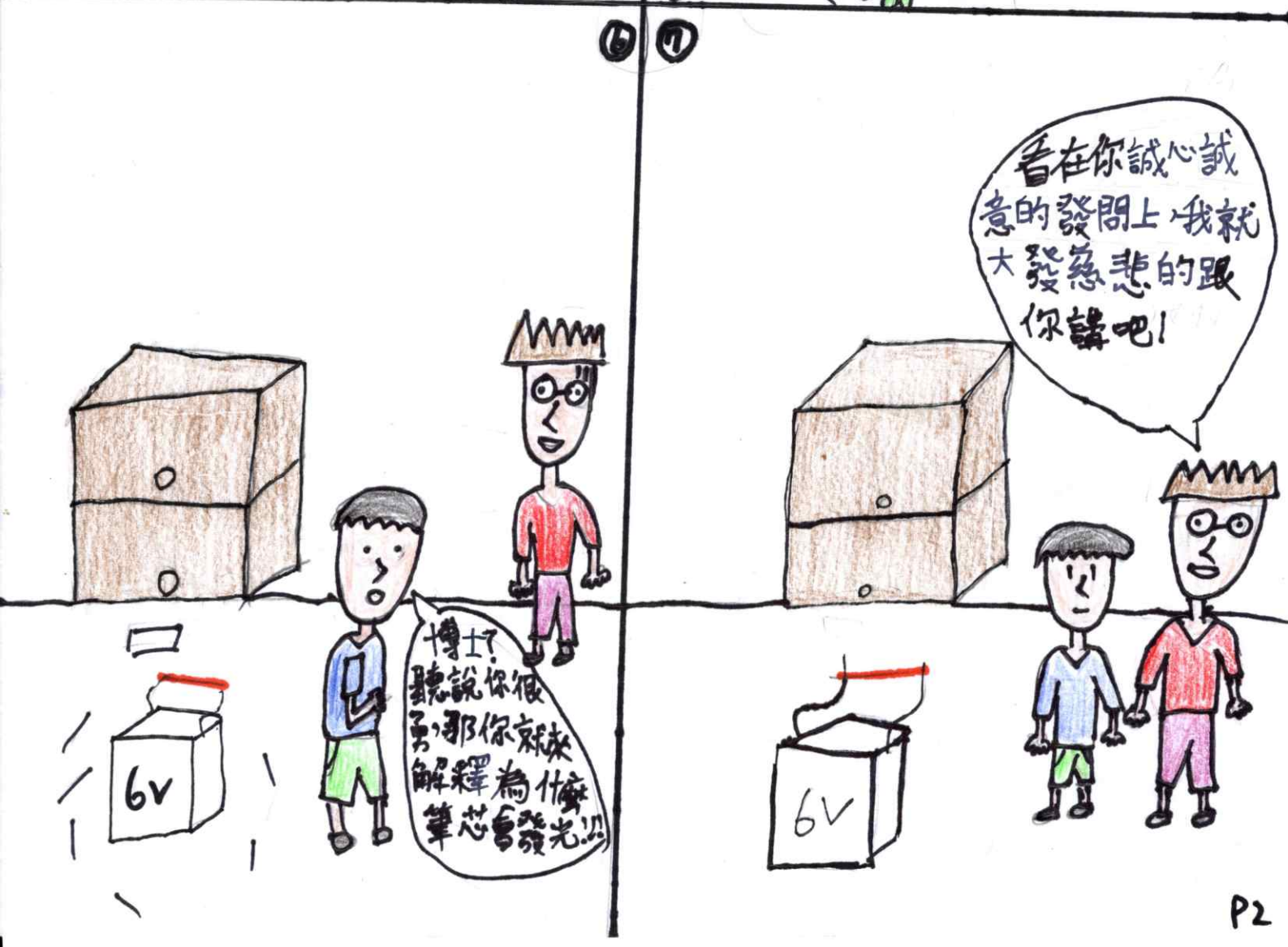


好神奇
喔! 發光
了!





4 5
6 7



筆芯發光，是典型的電流熱效應的現象。「電流熱效應」是當電流通過電阻時，因導線中的自由電子與電阻導體中的原子發生碰撞，使導體內的原子振動變得更劇烈，導致導體的溫度上升。

筆芯便是導體，筆芯溫度上升到一定的溫度，筆芯的熱能也會轉變為光能，筆芯因此發光。

THE

END