優良試題(情境式)

自然科之教學單元與內容(合併版) 國教輔導團自然學習領域國小組 編製

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| --- | --- | --- |
| 分類項目 | 教學單元名稱(年級) | 難度 |
|  | 3 | 4 | 5 | 6 | 2012年教師對各教學單元難度調查結果[(連結)](https://docs.google.com/viewer?a=v&pid=sites&srcid=ZGVmYXVsdGRvbWFpbnxwbGF5cXJjb2RlfGd4OjY1YTM0ZjBmMDJlZjZkZDM) |
| 物理 | □神奇磁力□生活中有趣的力□空氣和風 | □光的世界□燈泡亮了□浮力□時間 | □熱的傳播與溫度□聲音與樂器□防鏽與食物保存□力的作用與大小 | □電磁作用□聲音與樂器□簡單機械□物質的變化□力的作用與大小 |
| 化學 | □廚房裡的科學□溶解 | □水的三態變化□水的移動 | □空氣與燃燒□水溶液性質□氧氣和二氧化碳 | □水溶液性質 |
| 生物(環境) | □植物的身體□種蔬菜□認識動物身體與運動 | □水生家族□昆蟲世界 | □植物世界面面觀□動物世界面面觀(構造-功能-繁殖-分類)  | □生物、環境與自然資源 |
| 天文 |  | □月亮 | □太陽與四季□星空 |  |
| 地科(環境) | □天氣與生活 |  | □大地-流水作用與礦石□地震與防災 | □大地-流水作用與礦石□天氣的變化 |
| 能源與科技 | □運輸工具、能源 | □運輸工具、能源 |  |  |
| 資訊融入自然 |  |

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| 分類項目 | 國小(年級) | 國中 |
|  | 3 | 4 | 5 | 6 |  |  |
| 物理 |  |  | ●[熱的傳播](http://163.32.133.206/science/95%E5%B0%8F%E6%92%87%E6%AD%A5%E5%BE%97%E7%8D%8E%E7%B6%B2%E7%AB%99/95best/%E5%BE%97%E7%8D%8E%E4%BD%9C%E5%93%81/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C/%E5%9C%8B%E5%B0%8F/%E9%BC%93%E5%B2%A9-%E9%BB%83%E6%96%87%E8%B2%9E.doc) | ●[巧妙的用力工具](http://163.32.133.206/science/95%E5%B0%8F%E6%92%87%E6%AD%A5%E5%BE%97%E7%8D%8E%E7%B6%B2%E7%AB%99/95best/%E5%BE%97%E7%8D%8E%E4%BD%9C%E5%93%81/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C/%E5%9C%8B%E5%B0%8F/%E5%89%8D%E9%8E%AE-%E9%99%B3%E6%B7%91%E8%8A%AC.doc) | ●[原子組成與特性](http://163.32.133.206/science/95%E5%B0%8F%E6%92%87%E6%AD%A5%E5%BE%97%E7%8D%8E%E7%B6%B2%E7%AB%99/95best/%E5%BE%97%E7%8D%8E%E4%BD%9C%E5%93%81/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C/%E5%9C%8B%E4%B8%AD/%E5%8F%B3%E6%98%8C-%E6%96%B9%E5%BB%BA%E7%A8%8B_%E9%BB%83%E6%83%A0%E6%85%88.doc) | ●[力的作用](http://163.32.133.206/science/methods/test/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C%E7%A6%8F%E5%B1%B1%E5%9C%8B%E4%B8%AD%EF%BC%BF%E5%85%A5%E9%81%B81.swf) |
| 化學 |  |  | ●[氧氣與二氧化碳](http://163.32.133.206/science/methods/test/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C%E5%9C%8B%E5%B0%8F%E4%B8%AD%E6%B4%B2%EF%BC%BF%E4%BD%B3%E4%BD%9C1.swf) | ●[熱對物質的影響](http://163.32.133.206/science/index60.htm) | ●[熱傳導](http://163.32.133.206/science/methods/test/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C%E9%BC%8E%E9%87%91%E5%9C%8B%E4%B8%AD%EF%BC%BF%E4%BD%B3%E4%BD%9C2.swf) | ●[同位素](http://163.32.133.206/science/methods/test/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C%E5%9C%8B%E4%B8%AD%E5%B7%A6%E7%87%9F%E5%9C%8B%E4%B8%AD_no1.swf) |
| 生物(環境) |  | ●[水生植物分類](http://163.32.133.206/science/methods/test/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C%E5%9C%8B%E5%B0%8F%E8%8E%8A%E6%95%AC%E7%AC%AC1%E4%BB%B6%EF%BC%BF%E5%85%A5%E9%81%B83.swf) | ●[植物輸送水分作用](http://163.32.133.206/science/methods/test/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C%E5%9C%8B%E5%B0%8F%E5%89%8D%E9%8E%AE%EF%BC%BF%E4%BD%B3%E4%BD%9C2.swf)●[植物生存與繁殖](http://163.32.133.206/science/methods/test/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C%E5%9C%8B%E5%B0%8F%E9%BC%8E%E9%87%91%EF%BC%BF%E5%85%A5%E9%81%B82.swf)●[植物的繁殖與溫度關係](http://163.32.133.206/science/methods/test/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C%E5%9C%8B%E5%B0%8F%E6%96%B0%E8%8E%8A%E7%AC%AC2%E4%BB%B6%EF%BC%BF%E4%BD%B3%E4%BD%9C3.swf)●[植物功能與繁殖](http://163.32.133.206/science/95%E5%B0%8F%E6%92%87%E6%AD%A5%E5%BE%97%E7%8D%8E%E7%B6%B2%E7%AB%99/95best/%E5%BE%97%E7%8D%8E%E4%BD%9C%E5%93%81/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C/%E5%9C%8B%E5%B0%8F/%E9%BC%8E%E9%87%91-%E5%8A%89%E5%A7%BF%E4%BC%B6%EF%BC%BF%E6%B0%B8%E6%B8%85-%E8%94%A1%E7%A7%8B%E9%9C%9E%EF%BC%BF%E8%8F%AF%E5%B1%B1-%E7%B0%A1%E7%B6%AD%E7%91%A9.doc)●[生物繁殖(胎生-](http://163.32.133.206/science/95%E5%B0%8F%E6%92%87%E6%AD%A5%E5%BE%97%E7%8D%8E%E7%B6%B2%E7%AB%99/95best/%E5%BE%97%E7%8D%8E%E4%BD%9C%E5%93%81/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C/%E5%9C%8B%E5%B0%8F/%E5%8F%B3%E6%98%8C-%E8%94%A3%E6%A6%AE%E5%BE%B7%EF%BC%BF%E9%BC%8E%E9%87%91-%E6%9D%8E%E4%BD%B3%E6%86%93.doc)  | ●[生物與環境](http://163.32.133.206/science/95%E5%B0%8F%E6%92%87%E6%AD%A5%E5%BE%97%E7%8D%8E%E7%B6%B2%E7%AB%99/95best/%E5%BE%97%E7%8D%8E%E4%BD%9C%E5%93%81/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C/%E5%9C%8B%E5%B0%8F/%E6%97%97%E6%B4%A5-%E5%BB%96%E5%95%9F%E6%98%8E_%E9%99%B3%E5%A4%A7%E6%BE%A4_%E9%82%B1%E6%B0%B8%E5%B9%B3.doc) |  |  |
| 天文 |  |  | ●[太陽位置(闖關式)](http://163.32.133.206/science/methods/test/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C%E5%9C%8B%E5%B0%8F%E6%96%B0%E8%8E%8A%E7%AC%AC1%E4%BB%B6%EF%BC%BF%E4%BD%B3%E4%BD%9C4.swf)●[太陽高度角與氣溫](http://163.32.133.206/science/methods/test/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C%E5%9C%8B%E5%B0%8F%E8%8F%AF%E5%B1%B1%EF%BC%BF%E5%85%A5%E9%81%B85.swf)●[陽光、竿影、溫度](http://163.32.133.206/science/methods/test/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C%E5%9C%8B%E5%B0%8F%E7%91%9E%E7%A5%A5%EF%BC%BF%E5%85%A5%E9%81%B81.swf)●[太陽位置與規律性](http://163.32.133.206/science/methods/test/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C%E5%9C%8B%E5%B0%8F%E6%96%B0%E6%B0%91%EF%BC%BF%E4%BD%B3%E4%BD%9C5.swf)●[日月星位置](http://163.32.133.206/science/methods/test/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C%E5%9C%8B%E5%B0%8F%E5%A4%A7%E5%90%8C%EF%BC%BF%E5%85%A5%E9%81%B86.swf) |  |  |  |
| 地科(環境) |  |  |  | ●[看氣象學天氣](http://163.32.133.206/science/95%E5%B0%8F%E6%92%87%E6%AD%A5%E5%BE%97%E7%8D%8E%E7%B6%B2%E7%AB%99/95best/%E5%BE%97%E7%8D%8E%E4%BD%9C%E5%93%81/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C/%E5%9C%8B%E5%B0%8F/%E8%8F%AF%E5%B1%B1-%E6%9D%8E%E6%87%B7%E7%94%9F_%E6%9D%8E%E5%BF%97%E6%BD%94.doc) |  |  |
| 能源與科技 |  |  |  |  |  |  |
| 資訊融入自然 |  |  |  |  |  |  |
| 全科 |  |  |  |  | ●[保護色、氣壓、槓桿](http://163.32.133.206/science/methods/test/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C%E9%B9%BD%E5%9F%95%E5%9C%8B%E4%B8%AD%EF%BC%BF%E4%BD%B3%E4%BD%9C1.swf) | ●[酶、同位素、體內氣體運輸](http://163.32.133.206/science/95%E5%B0%8F%E6%92%87%E6%AD%A5%E5%BE%97%E7%8D%8E%E7%B6%B2%E7%AB%99/95best/%E5%BE%97%E7%8D%8E%E4%BD%9C%E5%93%81/%E5%84%AA%E8%89%AF%E8%A9%A6%E9%A1%8C/%E5%9C%8B%E4%B8%AD/%E5%B7%A6%E7%87%9F-%E6%9E%97%E7%91%9E%E6%96%87.DOC) |