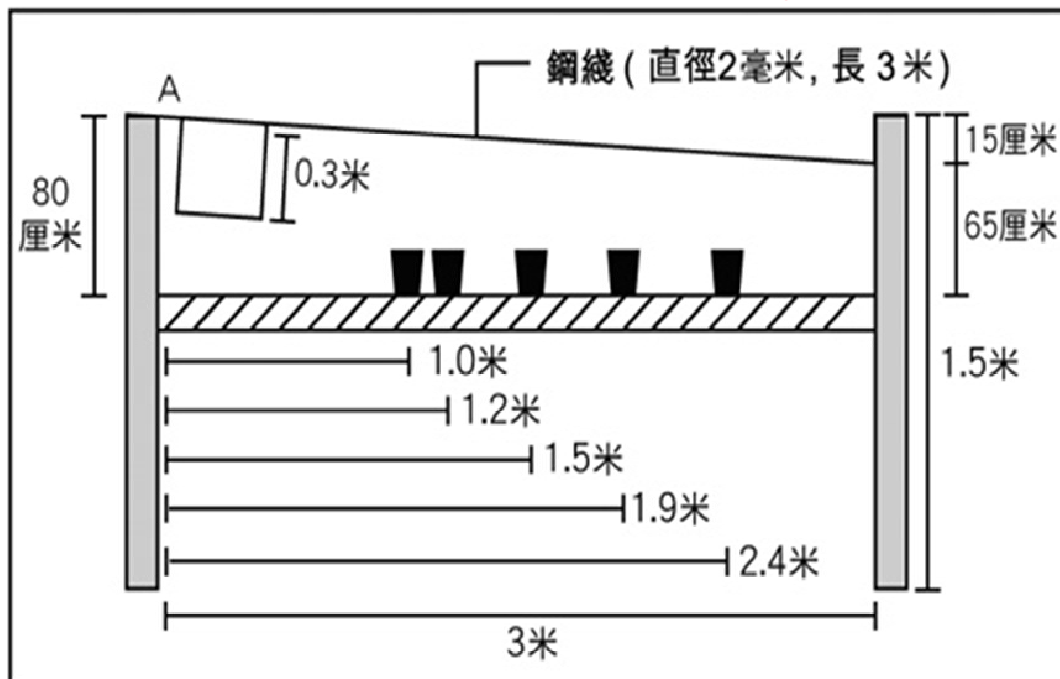


2012-13 SCIENCE COMPETITION

DRIPS DOWN A VINE 春藤露滴

Date: 8-3-2013 **TODAY!!!** Time: Assembly Venue: Hall



比賽圖 (不按比例)

目標： 設計並製作一組器件，於一鋼綫上運載五個乒乓球滑行並投球至五個指定目標盛接器內。

比賽規則：

1. 器件用料不限，惟不能直接採用坊間商品。
2. 器件沿鋼綫量度長度不得超過 30 厘米；盛載乒乓球處的底部與鋼綫垂直距離不得超過 30 厘米 (D)。
3. 將器件懸掛於鋼綫（直徑 2 毫米，長 3 米，張力約 12 公斤）的起始區 (A) 內，靜止後，器件於鋼綫上向前滑行並將乒乓球（直徑 4 厘米）分別投放到五個目標盛接器內。乒乓球靜止時仍然停留在盛器內為成功投放，並獲得該盛接器位置的分數。
4. 五個盛接器與起始點的距離分別為 1.0 米、1.2 米、1.5 米、1.9 米和 2.4 米。成功投放乒乓球在盛器內可分別取得 10 分、20 分、30 分、40 分和 50 分。
5. 比賽以成功投放盛器位置的分數總和計算，高分者為優勝。若遇上同分，則比較器件的總重量，輕者為勝。
6. 比賽必須在 1 分鐘時間內完成。器件於起始區向前滑行
7. 科學學會保留最終決定權。

Russian Meteorite Fall 15th February, 2013



A plunging meteor exploded with a blinding flash above central Russia on Friday, sowing panic as the hurtling space debris set off a shockwave that smashed windows and left over 250 people injured.

Morning traffic ground to a sudden halt in the Urals city of Chelyabinsk as the falling meteor partially burned up in the lower atmosphere above the city and lit up the morning sky, television footage showed, AFP reports.

The interior ministry said more than 250 people were wounded, three of them seriously, by the shockwave in Chelyabinsk and a half dozen other towns. The emergencies ministry said mobile communications were temporarily cut.

"At 0920 an object was observed above Chelyabinsk which flew by at great speed and left a trail behind. Within two minutes there were two bangs," regional emergencies official Yuri Burenko said in a statement.



It was not clear if the meteor was linked to the asteroid 2012 DA 14 which is expected to pass about 17,200 miles above the Earth later Friday in a unusually close approach to the Earth.

The meteor "was quite a large

object with a mass of several dozen tonnes," estimated Russian astronomer Sergei Smirnov of the Pulkovo observatory in an interview with the Rossia 24 channel. Schools were closed for the day across the region after the shock wave blew out windows of buildings amid temperatures as low as minus 18 degrees Celsius.

The local post service said several of its buildings had been damaged while the stadium of Chelyabinsk's Traktor ice hockey side was also hit, forcing the cancellation of a match.

State television showed a part of the roof and a wall shorn off a brick zinc factory in the city of Chelyabinsk, although officials said no one was injured in that case.

Other images showed people with bloodied faces and at least one child's back covered with blood.

Most of those injured were treated for minor cuts and bruises from shattered glass, the local police department told the RIA Novosti news agency.

Earth Tremors in Hong Kong

Did you feel minor shaking on **22nd February**? An **earthquake of magnitude 4.8** has occurred at **11:34 a.m.** at **Heyuan, Guangdong**. Initial estimate gave a **local intensity of III (three) on the Modified Mercalli Intensity Scale** (修訂麥加利地震烈度表). Let's investigate in Hong Kong's past records of felt Earth Tremors

Since the Hong Kong Observatory recorded locally felt earth tremors in 1905, a **total of 171 earth tremors** of various intensities were registered. Since the Hong Kong Short-period Seismograph Network went into operation in 1979, **less than two per year on average**. Most of these earth tremors were of **intensity V(5) or below on the Modified Mercalli Scale**.

Modified Mercalli Scale Level and Impacts (Cases in Hong Kong):

I	Not felt. Marginal and long-period effects of large earthquakes.
II	Felt by persons at rest, upper floors, or favorably placed.
III	Felt indoors. Hanging objects swing. Vibration like passing of light trucks. Duration estimated. May not be recognized as an earthquake.
IV	Hanging objects swing. Vibration like passing of heavy trucks; or sensation of a jolt like a heavy ball striking the walls. Standing motor cars rock. Windows, dishes, doors rattle. Glasses clink. Crockery clashes. In the upper range of wooden walls and frames
V	Felt outdoors; direction estimated. Sleepers wakened. Liquids disturbed, some spilled. Small unstable objects displaced or upset. Doors swing, close, open. Shutters, pictures move. Pendulum clocks stop, start, change rate.

Science seminar @school:

Date	Time	Venue	Speaker	Topic	Speaker's information
25/3 (Mon)	4:10 - 5:10 p.m.	Function Hall (Rm514)	吳梓新醫師	Harmful or helpful? An introduction to Chinese Materia Medica 認識常用中藥材	School of Chinese Medicine, CU 香港中文大學中醫學院

If you are interested in the talk, please sign up on our board near the staff common room (Rm102).

Time to Relax!																																																																																																																																																																			
<p><i>Challenging Corner:</i></p> $a=b$ $a^2=ab$ $a^2+a^2=a^2+ab$ $2a^2=a^2+ab$ $2a^2-2ab=a^2+ab-2ab$ $2a^2-2ab=a^2-ab$ $2(a^2-ab)=1(a^2-ab)$ $2=1$ <p><i>Can you find out the logical mistake? Answer will be provided in the next Sound of Science.</i></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>6</td><td>5</td><td></td><td></td><td></td><td>2</td><td>4</td><td>3</td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td>3</td><td>1</td><td></td><td>7</td> </tr> <tr> <td></td><td></td><td>9</td><td></td><td>7</td><td></td><td></td><td></td><td>8</td> </tr> <tr> <td></td><td>2</td><td></td><td>7</td><td></td><td></td><td>5</td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td>8</td><td></td><td></td><td>9</td><td></td><td>2</td><td></td> </tr> <tr> <td>8</td><td></td><td></td><td></td><td>9</td><td></td><td>7</td><td></td><td></td> </tr> <tr> <td>7</td><td></td><td>1</td><td>8</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td>6</td><td>4</td><td>3</td><td></td><td></td><td></td><td>8</td><td>5</td> </tr> </table> <p style="text-align: right; font-size: small;">Previous Sudoku Answer:</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr><td>5</td><td>9</td><td>7</td><td>3</td><td>4</td><td>2</td><td>8</td><td>6</td><td>1</td></tr> <tr><td>2</td><td>1</td><td>6</td><td>8</td><td>9</td><td>5</td><td>4</td><td>7</td><td>3</td></tr> <tr><td>4</td><td>3</td><td>8</td><td>6</td><td>1</td><td>7</td><td>5</td><td>2</td><td>9</td></tr> <tr><td>9</td><td>8</td><td>2</td><td>5</td><td>3</td><td>4</td><td>7</td><td>1</td><td>6</td></tr> <tr><td>3</td><td>4</td><td>1</td><td>7</td><td>6</td><td>8</td><td>9</td><td>5</td><td>2</td></tr> <tr><td>6</td><td>7</td><td>5</td><td>9</td><td>2</td><td>1</td><td>3</td><td>8</td><td>4</td></tr> <tr><td>7</td><td>6</td><td>4</td><td>2</td><td>5</td><td>3</td><td>1</td><td>9</td><td>8</td></tr> <tr><td>1</td><td>5</td><td>9</td><td>4</td><td>8</td><td>6</td><td>2</td><td>3</td><td>7</td></tr> <tr><td>8</td><td>2</td><td>3</td><td>1</td><td>7</td><td>9</td><td>6</td><td>4</td><td>5</td></tr> </table> <p style="text-align: right;">Drips Down a Vine will be held in the school hall today during the assembly.</p>	6	5				2	4	3							3	1		7			9		7				8		2		7			5														8			9		2		8				9		7			7		1	8							6	4	3				8	5	5	9	7	3	4	2	8	6	1	2	1	6	8	9	5	4	7	3	4	3	8	6	1	7	5	2	9	9	8	2	5	3	4	7	1	6	3	4	1	7	6	8	9	5	2	6	7	5	9	2	1	3	8	4	7	6	4	2	5	3	1	9	8	1	5	9	4	8	6	2	3	7	8	2	3	1	7	9	6	4	5
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