
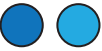







## key to molecules

-  Red atoms = oxygen
-  Blue atoms = nitrogen
-  Black atoms = carbon
-  White atoms = hydrogen
-  Yellow atoms = sulphur
-  Green atoms = chlorine
-  Silver atoms = sodium

### Otley Science Fair

Saturday 11 November

10am - 4pm

at the Courthouse

*Free event suitable for all ages*

**Fun for all the family**

*Supported by Otley Carnival*



**There are regular Science Cafés throughout the year**

## Science Festival Speakers 2017

**Stefan Gates**

Monday 6 November 7.30pm

**Professor Robert Winston**

Tuesday 7 November 7.30pm

*(please note new date)*

**Dr. Marty Jopson**

Friday 10 November 7.30pm

**Professor Monica Grady**

Saturday 11 November 7.30pm

**Please see Courthouse or Science Festival websites for details**

[otleycourthouse.org.uk](http://otleycourthouse.org.uk)  
[otleysciencefestival.org.uk](http://otleysciencefestival.org.uk)



The makeitmolecular team work with schools, visitor attractions and science fairs across the country to give people the chance to have hands-on experiences with molecules.

*Find out more at:*

<http://www.keele.ac.uk/makeitmolecular/>

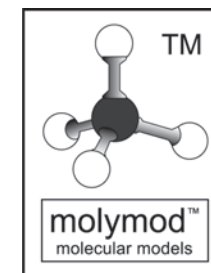
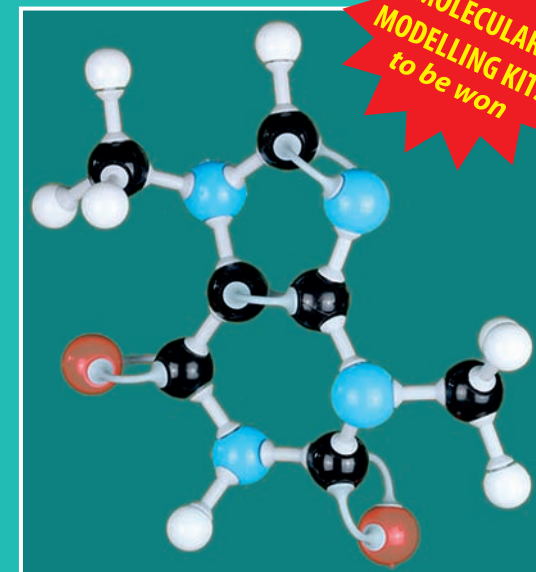
**Visit the makeitmolecular stall at the Fair**



## Otley Molecule Trail

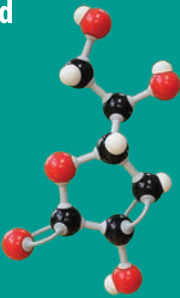
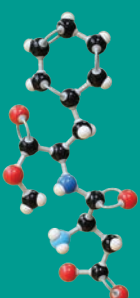
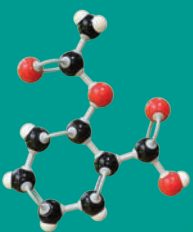
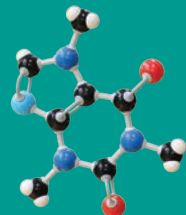
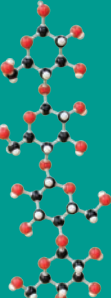
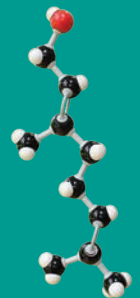
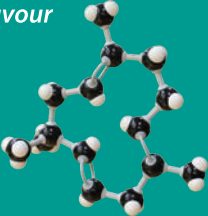
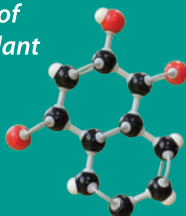
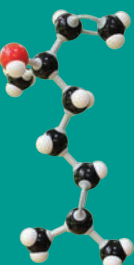
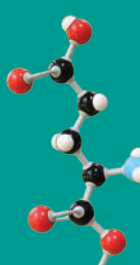
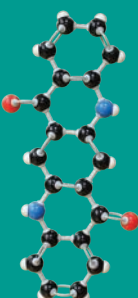
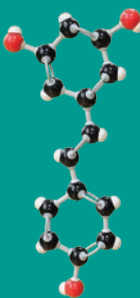
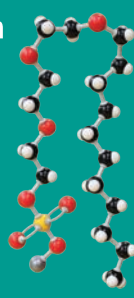
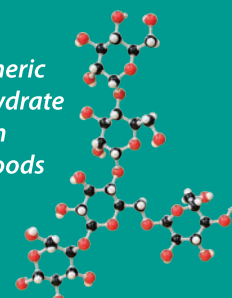
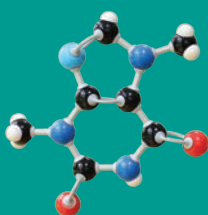

*23rd October to 9th November*

**3**  
MOLECULAR  
MODELLING KITS  
to be won



# Can you find these molecules?

There are 15 different molecules to be found in shop windows around Otley

<b>Ascorbic Acid</b> <i>Vitamin C</i> 	<b>Aspartame</b> <i>Artificial non-saccharide sweetener, sugar substitute</i> 	<b>Aspirin</b> <i>Well known analgesic</i> 	<b>Caffeine</b> <i>Stimulant found in tea and coffee</i> 
<b>Cellulose</b> <i>Glucose molecules found in wood and cotton</i> 	<b>Geraniol</b> <i>A scented oil extracted from rose petals</i> 	<b>Humulene</b> <i>Oil of hops, used to flavour beer</i> 	<b>Lawson</b> <i>Red-orange dye from leaves of the henna plant</i> 
<b>Linalool</b> <i>Spicy floral scent extracted from lavender</i> 	<b>MSG</b> <i>Monosodium glutamate, a flavour enhancer</i> 	<b>Quinacridone</b> <i>Violet pigment used in paints and dyes</i> 	<b>Resveratrol</b> <i>Anti-oxidant found in red wine</i> 
<b>Sodium laureth sulphate</b> <i>A detergent found in soaps and shampoos</i> 	<b>Starch</b> <i>A polymeric carbohydrate found in many foods</i> 	<b>Theobromine</b> <i>A bitter alkaloid found in chocolate</i> 	

# Answer Sheet

Give the location of each molecule

- 1 .....
- 2 .....
- 3 .....
- 4 .....
- 5 .....
- 6 .....
- 7 .....
- 8 .....
- 9 .....
- 10 .....
- 11 .....
- 12 .....
- 13 .....
- 14 .....
- 15 .....

Name: .....

Address: .....

Phone No: .....

*Please use a ballpoint pen to complete this form*

Hand completed sheet to Otley Courthouse by 6pm on Thursday 9th November. The first three correct entries picked at 11am at the Science Fair at Otley Courthouse on Saturday 11th November will receive a molymod molecular modelling kit.