



### List of Businesses

- |                 |                   |
|-----------------|-------------------|
| Apache Services | S A Paterson      |
| Black & Lizars  | Semichem          |
| Boots           | Shoe Zone         |
| Flowers by Lamb | Simplyfixit       |
| Greggs          | The Wee Bakehouse |
| Max Spielman    | WH Smith          |
| News Express    | With Love         |
| Riccio Gallery  |                   |

### How to enter

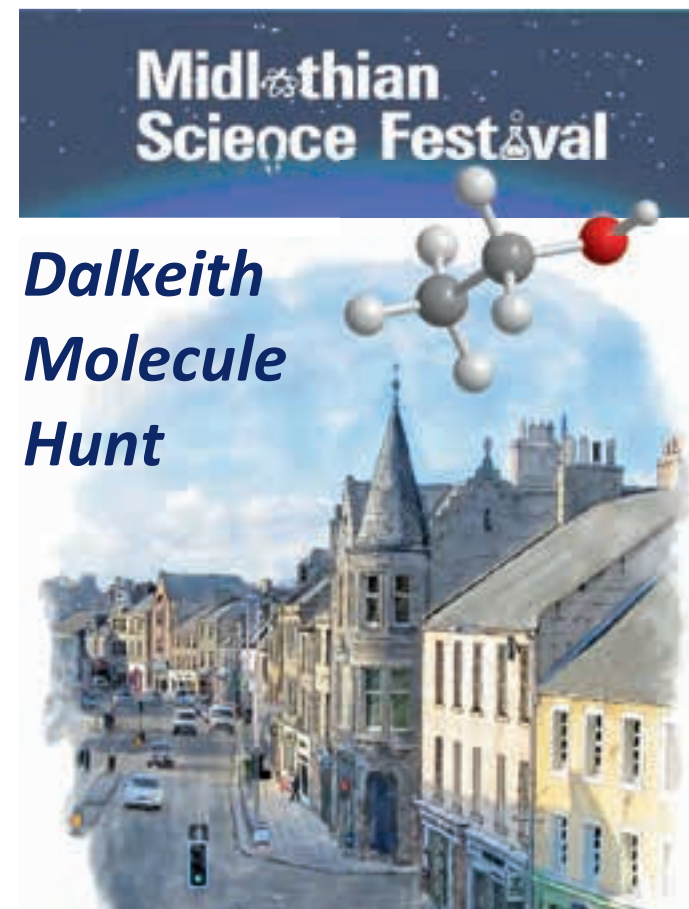
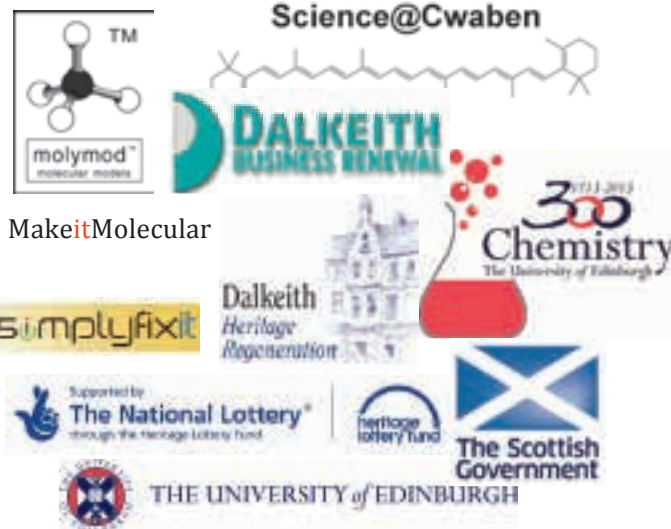
Join in the Molecule Hunt to find 15 different molecules located in shops and businesses around Dalkeith Town Centre. Look inside to see a map helping you find locations of each business taking part in the Molecule Hunt. Each molecule relates to the kind of everyday business taking place in each shop. How many can you find? Fill in details of each molecule on the entry form overleaf.

#### Please return entries to:

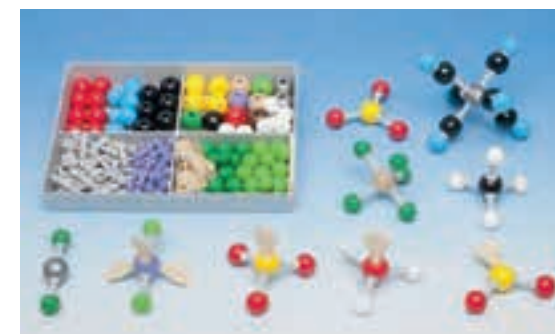
Dalkeith Library  
 White Hart Street EH22 1AE  
**by 1pm Saturday 19 October 2013**

Telephone: (0131) 663 2083  
 dalkeith.library@midlothian.gov.uk

#### Brought to you by



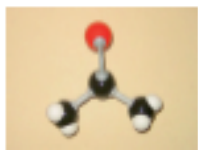
**Win a Molymod Molecular Kit  
 PLUS gift tokens worth £60**



**PLUS two runner up prizes of Molymod  
 Molecular Kits and gift tokens worth £20**

# Can you find all of these molecules?

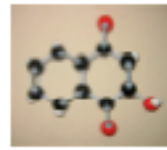
The businesses where they are located are listed overleaf.



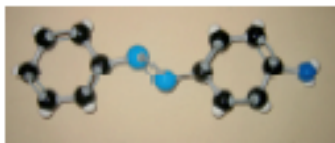
↑1 **Acetone**  
A solvent used in repairs



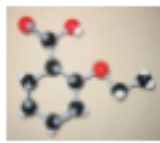
↑2 **Alpha Pinene**  
A constituent of turpentine



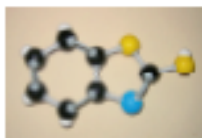
↑9 **Lawsone (Henna)**  
Red-orange dye used to colour hair and skin



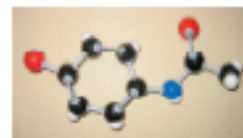
↑3 **Aniline Yellow**  
A colouring agent in shoe polish



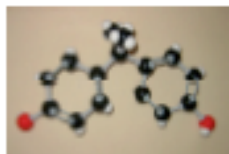
↑4 **Aspirin**  
A pharmaceutical



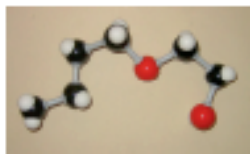
↑10 **Mercaptobenzothiazole**  
Used in the production of rubber



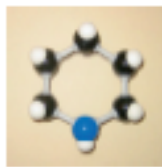
↑11 **Saccharin**  
Artificial sweetener



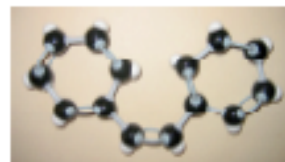
↑5 **Bisphenol A**  
A starting material for epoxy resins



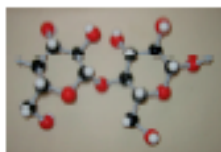
↑6 **Butoxyethanol**  
A solvent used for cleaning



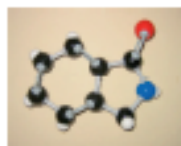
↑12 **Piperidine**  
Constituent of pepper



↑13 **Stilbene**  
An optical brightener for paper



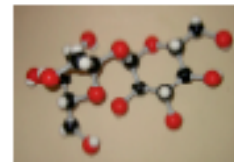
↑7 **Cellulose**  
The basic unit in paper



↑8 **Isoindolinone**  
Base unit for a range of pigments



↑14 **Styrene**  
Base unit of polystyrene



↑15 **Sucrose**  
A sweetener

## KEY TO COLOURS OF ATOMS IN MOLECULES

● Red atoms - oxygen  
● Black atoms - carbon

● Blue atoms - nitrogen  
○ White atoms - hydrogen

● Yellow atoms - sulphur

# Dalkeith Molecule Hunt Competition

## Entry Form

Write down where you find each molecule beside its number.

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

Please hand in your completed entry form to Dalkeith Library before 1pm on 19 October.

Your name: .....

Address: .....

.....

.....

Tel: .....

E-mail: .....

.....

Any comments about the molecule hunt?

.....

.....

.....

.....