

VIRTUACHEM: GUIDE

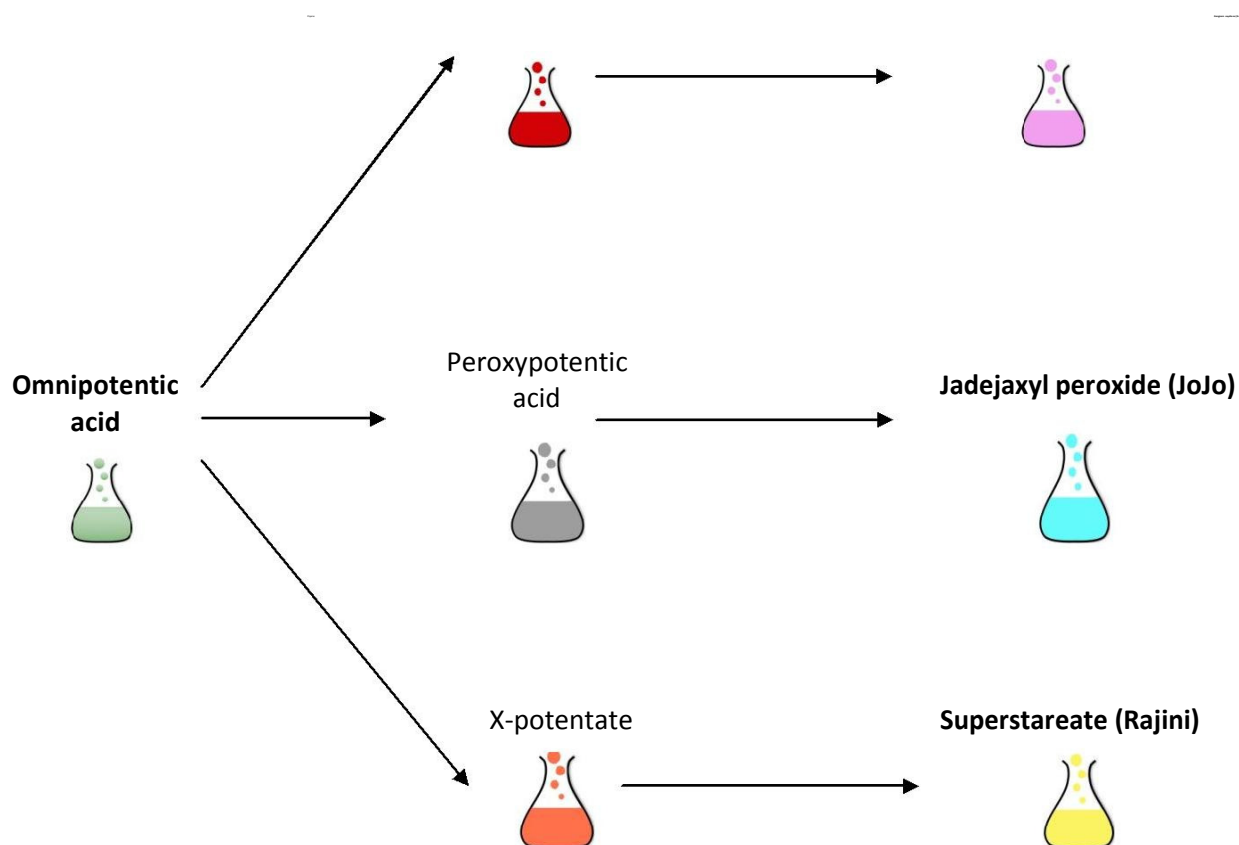
It is year 2050. And the chemists have just had their Eureka moment, discovering the three most wanted and reportedly eco-friendly chemicals of the age:

Gangnam oxydiene aka **G.O.D** : The Ultimate Rubber with everlasting elasticity

Jadejaxyl peroxide aka **JoJo** : Most promising rocket propellant with unbelievable thrust generation, a never-seen-before efficiency of 80%

Superstareate aka **Rajini** : The Ultra-cleaner

Presently, the only chemical known to produce all three of them following different reaction routes is **Omnipotent acid**. Research carried out at the laboratory scale has found the following precursors for the generation of each of the above mentioned chemicals.



With this news out, the chemical industries are up and ready to start mass production of the ultimate-trio. Each of these reactions needs special reactors which are available in the market.

You are to enter the market at this point of invention-boom and operate your firms according to the changing market scenario. Industry and Research go hand-in-hand, and thus you must keep an eye on the new developments in reactors time-to-time and understand their features for smart application. News feed will keep you updated on the current trend and give a calculated prediction on the future worth of each of the chemical. You are to read these pieces of information well and operate your productions accordingly.

The following descriptions will help you understand the elements of the game which in turn will give you a clearer picture of the game's format-

1. News Feed-

It is the source of information for the estimated performance of the market and also the evolutionary developments at your disposal for better production. Look out for Market analysis and R&D reactor upgrades from time to time.

2. Buying and Selling

Every chemical (7 of them) can sold to the market at any point. **You can buy ONLY**

Omnipotent acid in Level 1, and (Omnipotent acid, Pysane, Peroxypotent acid and X-potentate) in the subsequent levels. Both selling and buying of chemicals are based on the market price (an equilibrium price settled between demand and supply) of the respective chemical.

3. Production

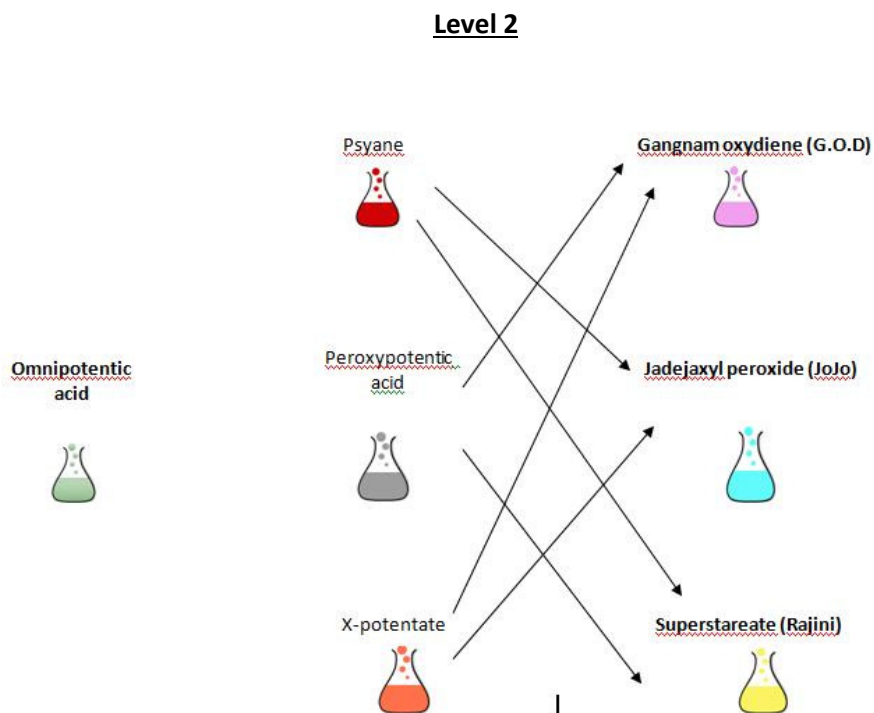
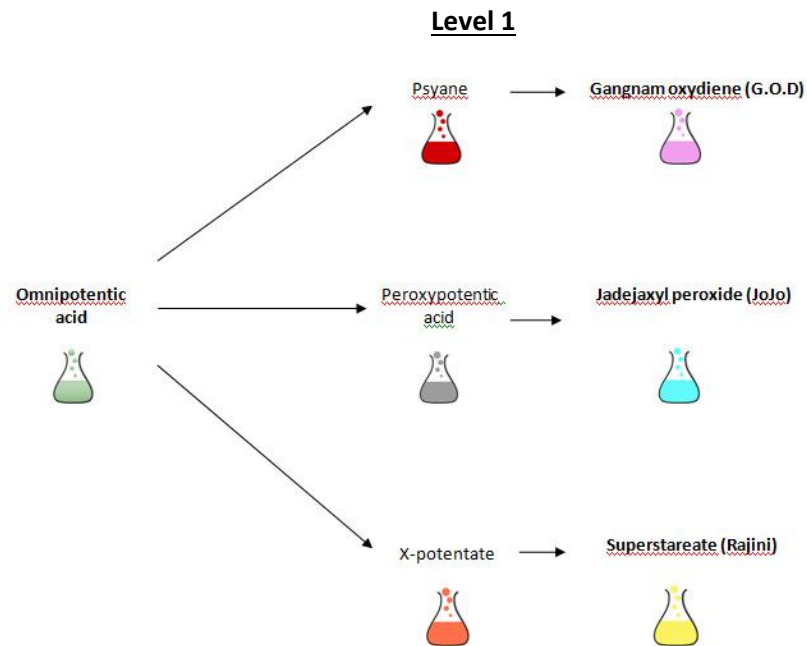
Chemicals are produced by selecting the reactant and the desired reactor. Each reactor has a **production rate** (time taken to produce a unit product) and **lifetime** (number of conversions that a particular reactor can process) associated with it. Multiple reactors of a kind (within a **maximum limit of market availability**) can be bought as per your wish. **NOTE-Reactors are non-tradable.**

4. Game-Time

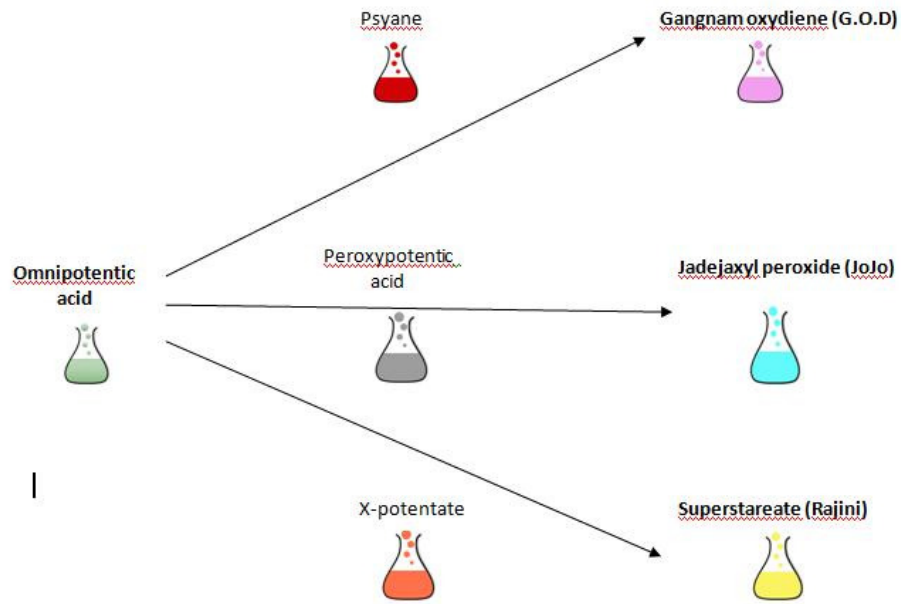
The game-link is available for 6 hours (from _____ to _____). Every participant can start the game at any point during this period ensuring a 3-hour game time

5. Upgrades

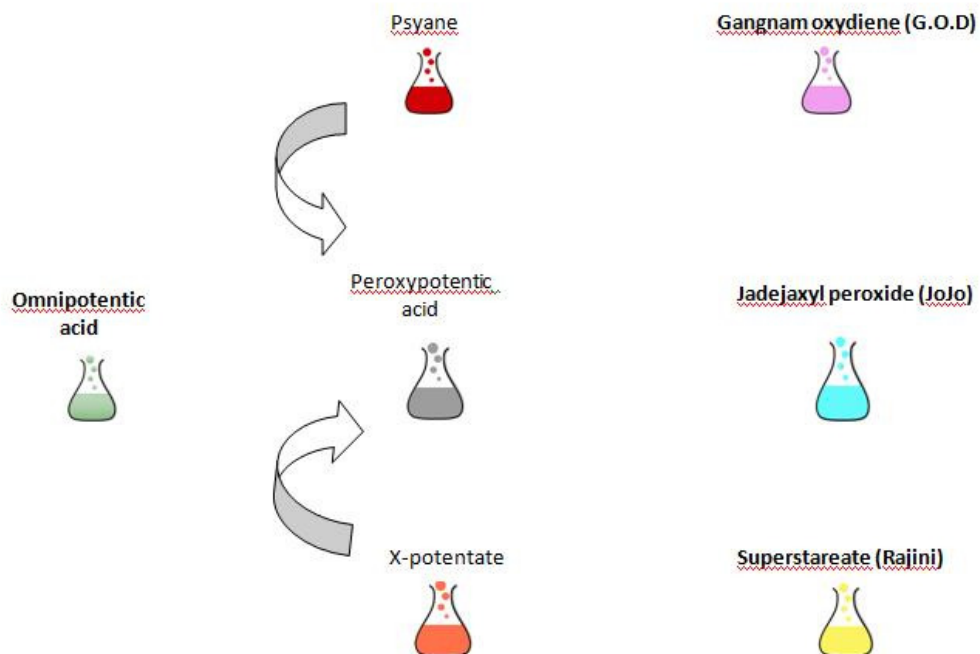
R&D works towards providing reactor upgrades. **These reactor upgrades happen over different time periods and get exhausted from the market once the next upgrade is around the corner.** R&D eyes for certain upgrades and their functions have been illustrated in the following diagrams.

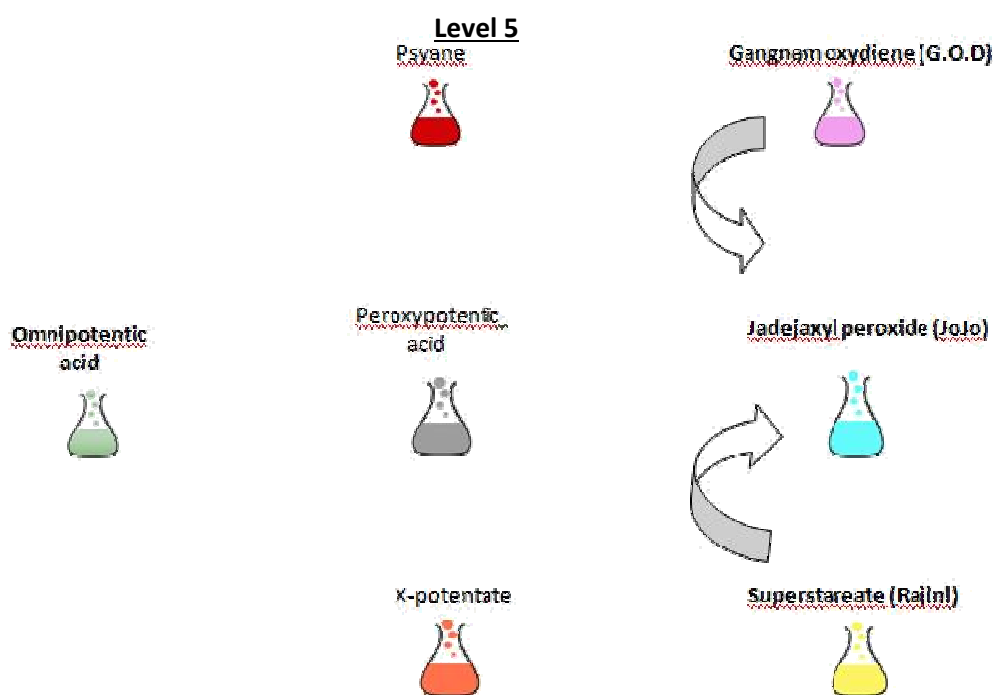


Level 3

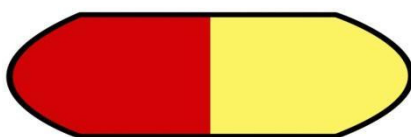


Level 4





Reactors are represented using symbol throughout the game. The symbol looks like this-



REACTOR COLOUR CODE- The colour in the left section of the reactor represents Reactant

and the colour on the right section represents Product produced on reacting. Please notice

the colours of every chemical in use.

6. Using the interface

Market (Top of the screen) - Check the available reactors and chemicals here and their market price

Trade Centre (Left) - Order and buy desired number of a particular chemical here

Storage (Right) - Check your inventories here and opt for selling any number of your inventories to the market from here

Operation (Centre space) – Choose/Drag the appropriate reactor (quantity and type) and the reactant to the centre space. Click on the reactor for the reaction to occur yielding the respective product.

Guide (Right Top Corner) - Use this as a guide to check the reactions and reactors to be used.

Newsfeed (Bottom)- News and Updates appear here.

ULTIMATE OBJECTIVE- Make the most profit!