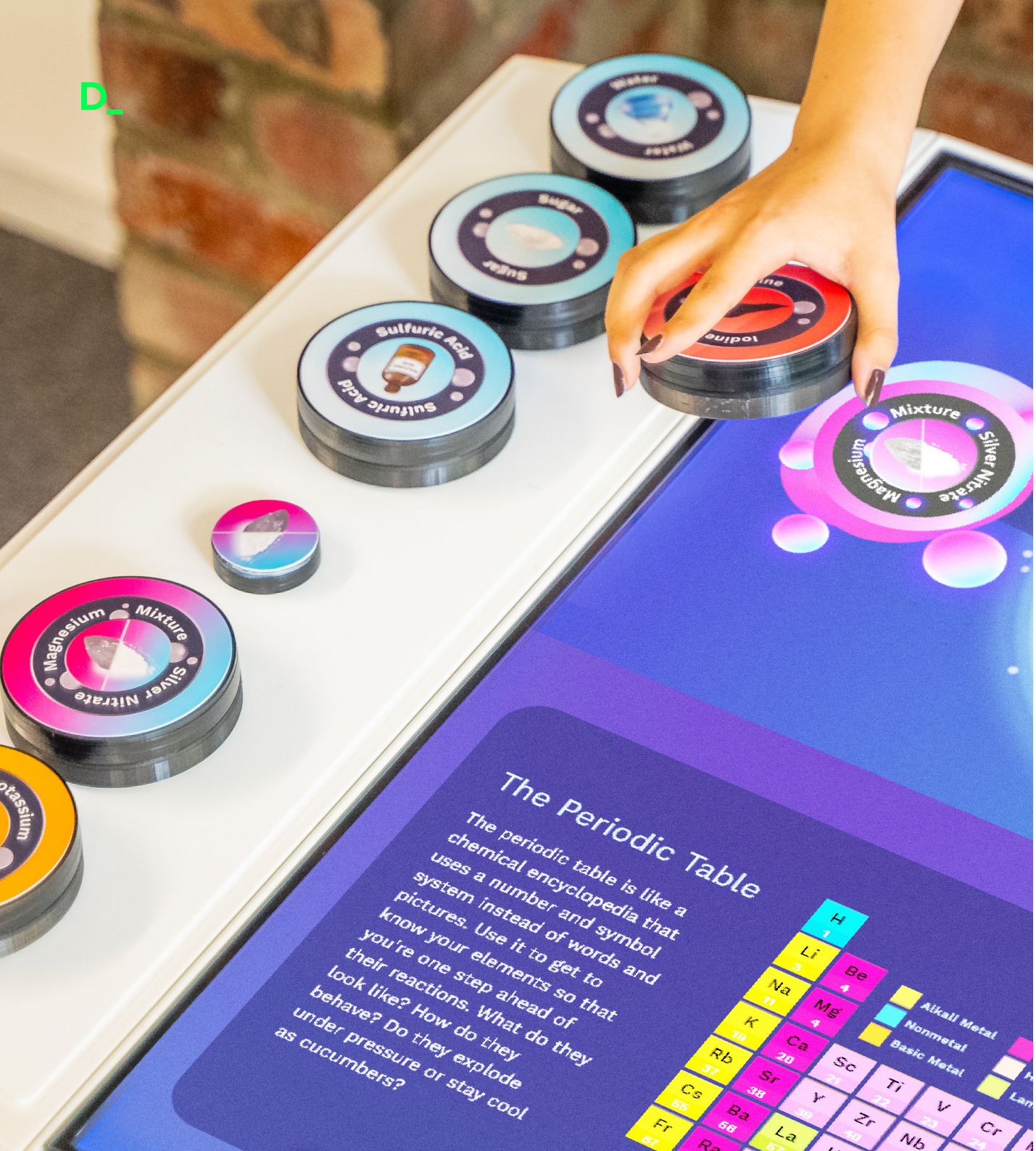
Interactive

Virtual Chemistry Lab

Fact Sheet

formula D_



Attract and engage visitors with a Virtual Chemistry Lab_

The **Virtual Chemistry Lab Table** is a safe, low cost alternative to the standard chemistry laboratory in schools and science centre environments. It takes learning environments to another level by combining the power of digital simulation with intuitive tangible interaction.


Iodine
Potassium

Experiment and Learn Safely

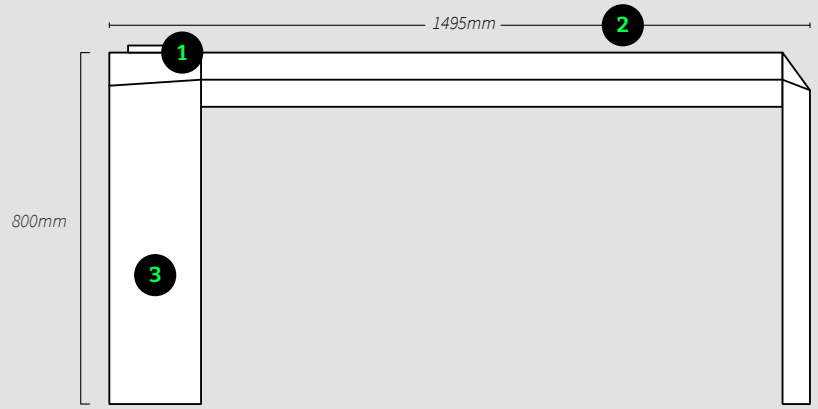
Perfect for schools and science centre environments, the **Virtual Chemistry Lab Table** allows learners the opportunity to experiment with chemistry equipment and substances in a completely safe environment.

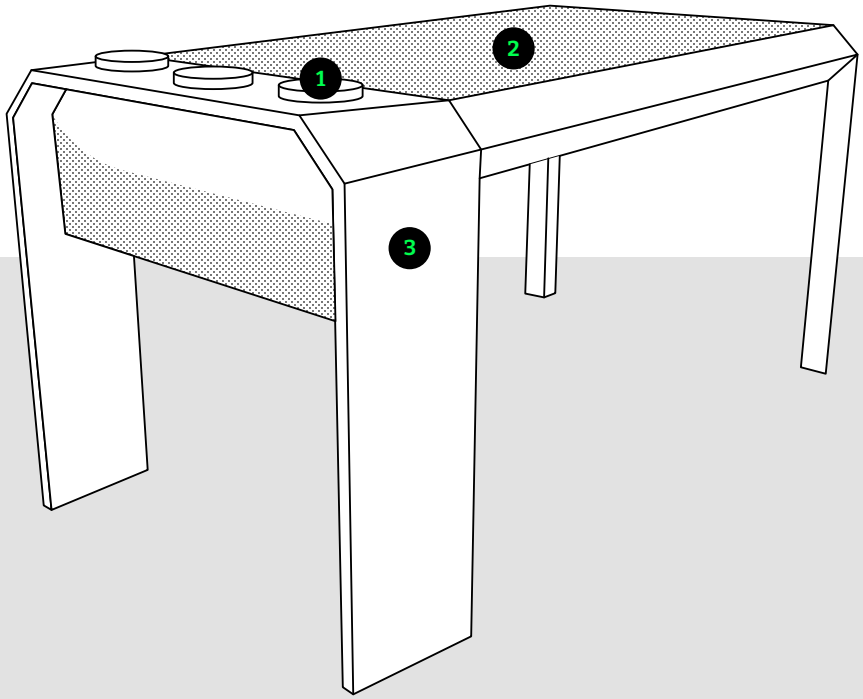
Learners navigate digital content information by placing physical cards – representing specific tools or substances you would find in a real chemistry lab - onto the projection tables' glass surface. Once a card has been placed on the table, a menu appears around the card and users can then turn the cards to activate desired functions such as turning up the heat on a Bunsen burner. Placing different substances together creates chemical reactions while tool cards can be added to an experiment to display temperatures, super-microscopic views of the reactions at an atomic level and chemical symbols.

Tutor cards offer short audio descriptions of what is happening on the screen while realistic sound effects illustrate the sometimesforceful nature of the reactions. But no worries: no fingers will be burned in Formula D' s Virtual Chemistry Lab table. Still, the application warns learners about potentially dangerous actions, and makes sure that they are aware of the safety gear required to conduct the experiments.

The Virtual Chemistry Lab

The biggest platform is a turnkey-solution sophisticated Reactivision pattern recognition technology and comprising of a 48” High Definition touch and object recognition screen enclosed in a beautifully designed sheet metal and aluminium housing. The durable display is designed for high traffic areas.





01_ *Physical Card Holders*
02_ *48” HD (4K) Touchscreen*
03_ *Aluminium Frame*

formula D_'s Red Dot Award
is another proof that we not only match international standards, we often **exceed them.**

Prof. Peter Zec
Founder of Red Dot

Exhibit Experience Details

Experience Details

Inclusive Design	Wheel chair friendly
Learning Outcomes	Defined by custom application made to your requirements
Target and Age Group	12 years and older
Reading Level	12 years and older
Duration / Interaction	About 3 minutes per visitor
Application	Science and visitor centres, Schools and education centres
Languages	English Custom language at additional cost
Learning outcome	***Handling of:*** • water • Iodine • sugar • potassium • magnesium • sulphuric acid ***Understanding:*** • different states of matter • the molecular level • the impact of temperature • the consequences of some experiments • the risk of doing chemical experiments

Customisability

Module content for the virtual chemistry lab can be customised and created to meet the required learning outcomes for your centre as well as meet the target audience at their competency level.

Standard Specifications

Physical Unit
Contact us for more information on shipping weight and dimensions.

Exhibit Weight	129kg
Shipping Weight	195kg
Dimensions Assembled (mm)	**L** 1555 x **W** 910 x **H** 760
Enviroment	Dry Indoor Space
Materials	Epoxy Coated Galvanised Steel, 6mm Tempered Glass, Plexiglass

Technology
The unit is shipped with a control monitor built into the cabinet.

Components	48 inch LED Touch and Object Recognition Screen Automatic key switch system, 2.1 Sound system
Integrated PC System	Intel Core i7 processor, 8GB DDR4 RAM, 256GB SSD Microsoft Windows Pro 64Bit
Connectivity	**WiFi** 240 V AC 60Hz
Connectivity	**LAN** 120V AC 50Hz

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