

April 2025

Chemistry 化學

Gathering Facts

Imagine you have LEGOs! Chemistry is kind of like playing with the tiniest LEGOs—so small you can't even see them with your eyes. Everything around you is made of these tiny building blocks called atoms. When atoms are arranged in different ways, they form the three states of matter: solid, liquid, and gas.

Chemistry is the study of how atoms in solids, liquids, and gases stick together and how they can change. Sometimes, atoms rearrange to make something completely new with different properties. For example, when you mix certain substances, they might heat up, change color, or form a new material—that's chemistry in action!

Making it Work

Students explored matter and chemical reactions through hands-on activities and experiments. They learned that solids have tightly packed particles that hold their shape, liquids have particles that are close but can slide past one another, and gases have particles that are far apart and move quickly, filling any space they're in.

In one experiment, mixing baking soda and vinegar created a fizzy reaction, showing how substances can combine and form something new. The oobleck experiment demonstrated that some materials can behave like both solids and liquids, depending on how they're handled. Finally, students applied what they learned by creating their own slime through mixing different substances—experiencing chemistry in a fun, creative way!

蒐集事實

想像你擁有樂高積木！化學就像是在玩最小的樂高積木——它們小到你無法用眼睛看到。你周圍的一切都是由稱為原子的微小構造塊構成的。當原子以不同的方式排列時，它們形成物質的三種狀態：固體、液體和氣體。

化學是研究固體、液體和氣體中的原子如何結合在一起，以及它們如何變化的一門學科。有時，原子會重新排列，形成具有不同特性的全新物質。例如，當你混合某些物質時，它們可能會變熱、變色或形成新物質——這就是化學反應！

使它發揮作用

學生透過實際操作和實驗來探索物質和化學反應。他們學到固體的粒子緊密排列，保持其形狀；液體的粒子彼此接近，但可以相互滑動；氣體的粒子分布較遠，且移動迅速，充滿它所處的任何空間。

在一項實驗中，將小蘇打和醋混合產生氣泡反應，展示物質如何結合並形成新的物質。史萊姆實驗則證明某些材料根據處理方式可以同時表現出固體和液體的特性。最後，學生透過混合不同的物質創造自己的史萊姆，以有趣和創造性的方式體驗化學！

1

ASK + IMAGINE

提問 + 創思

2

Students learned that everything around us is made of matter and explored the three states of matter. 學生瞭解到我們周圍的一切都是由物質構成的，並探索了物質的三種狀態。



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4

CREATE

創造

We worked together to do enquiries on chemical reactions.

我們一起對化學反應進行研究。



3

PLAN

計畫

5

By working together and exploring different mixtures, students created a new substance. 透過合作和探索不同的混合物，學生創造一種新物質。



5

IMPROVE

改進

We tested and made improvements to our slime where needed.

我們對黏液進行測試，並在需要的部份加以改進。



