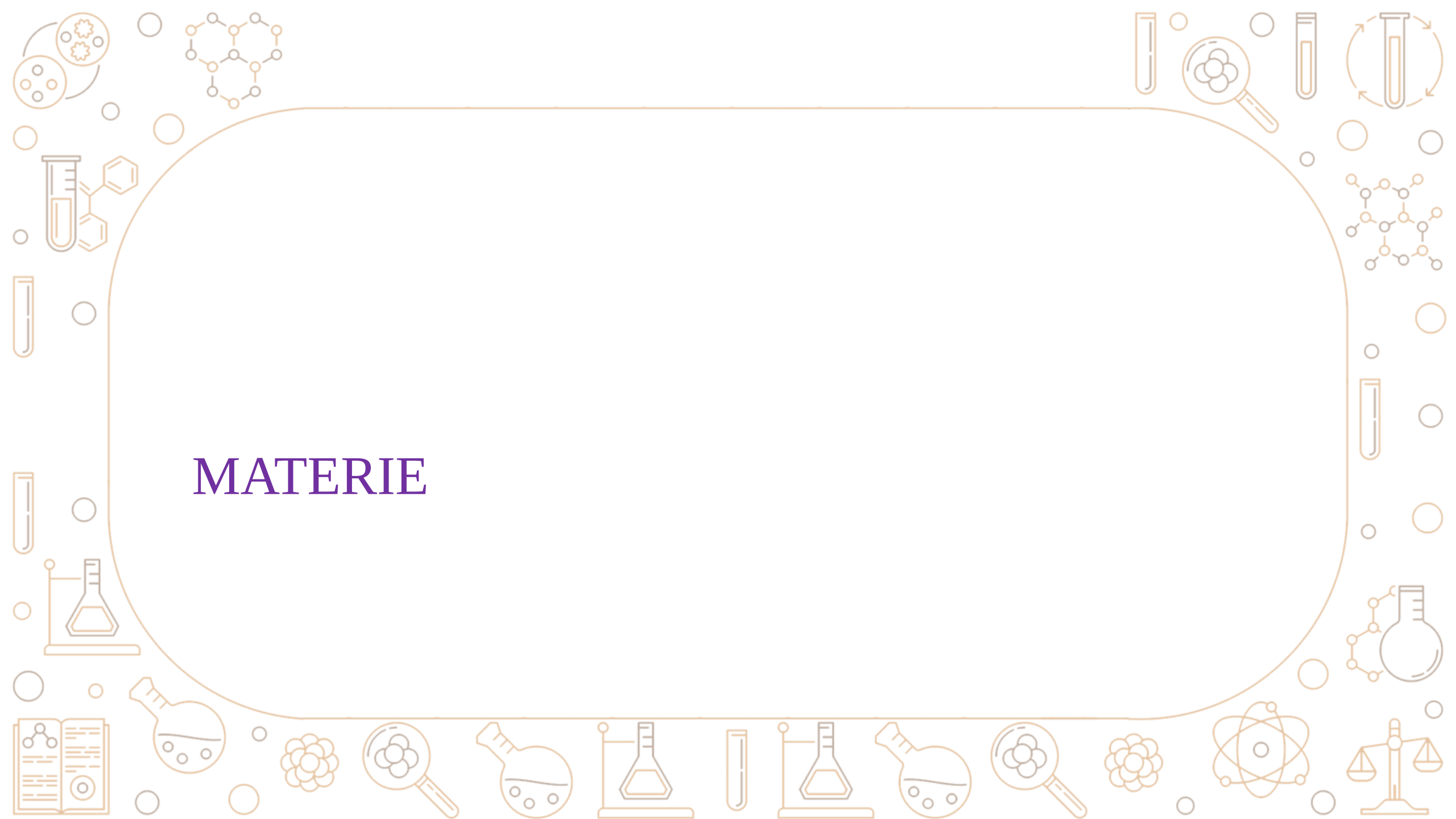
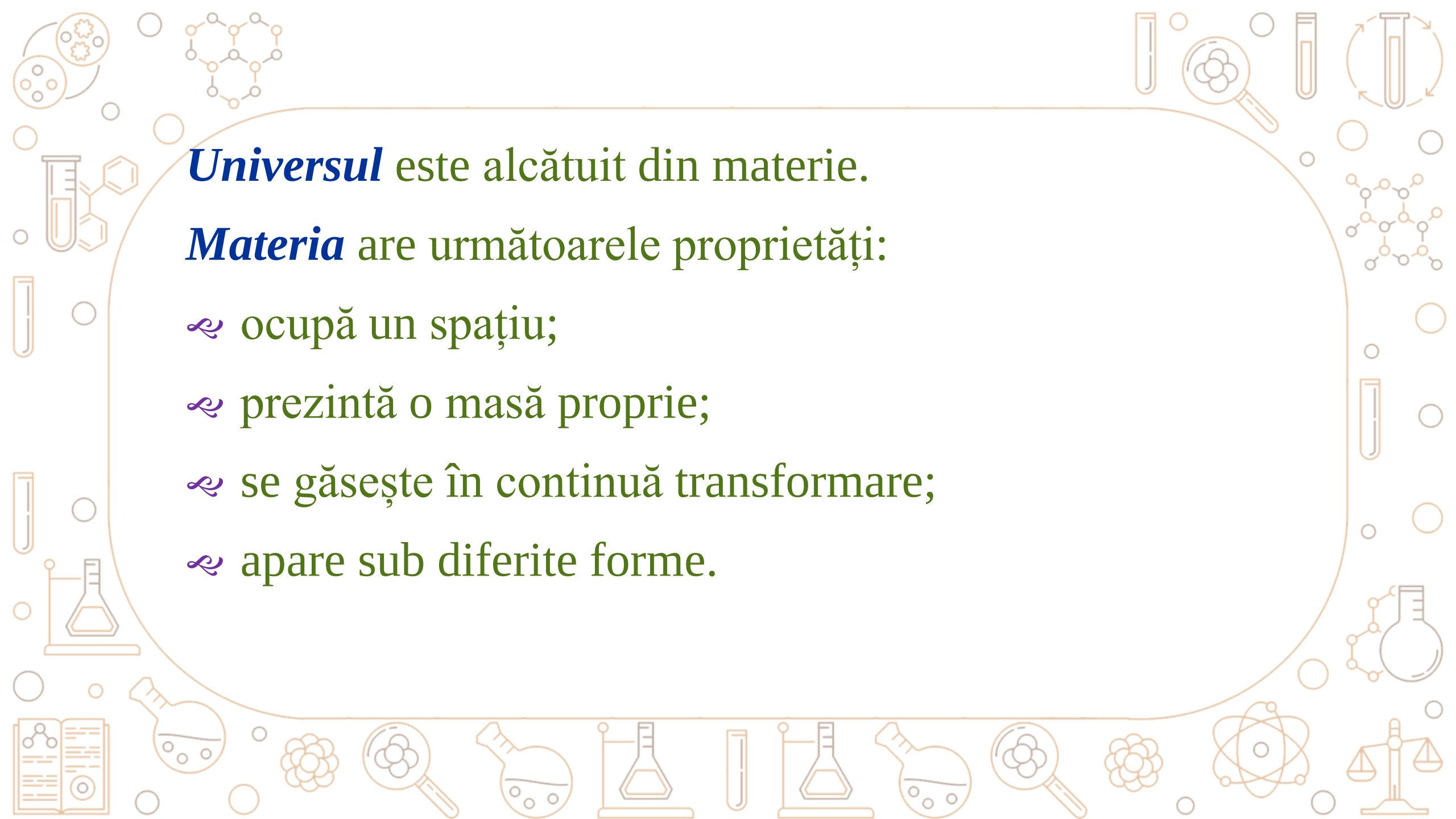


# CHIMIA - ȘTIINȚĂ A NATURII

MATERIE. CORP. SUBSTANȚĂ

# MATERIE

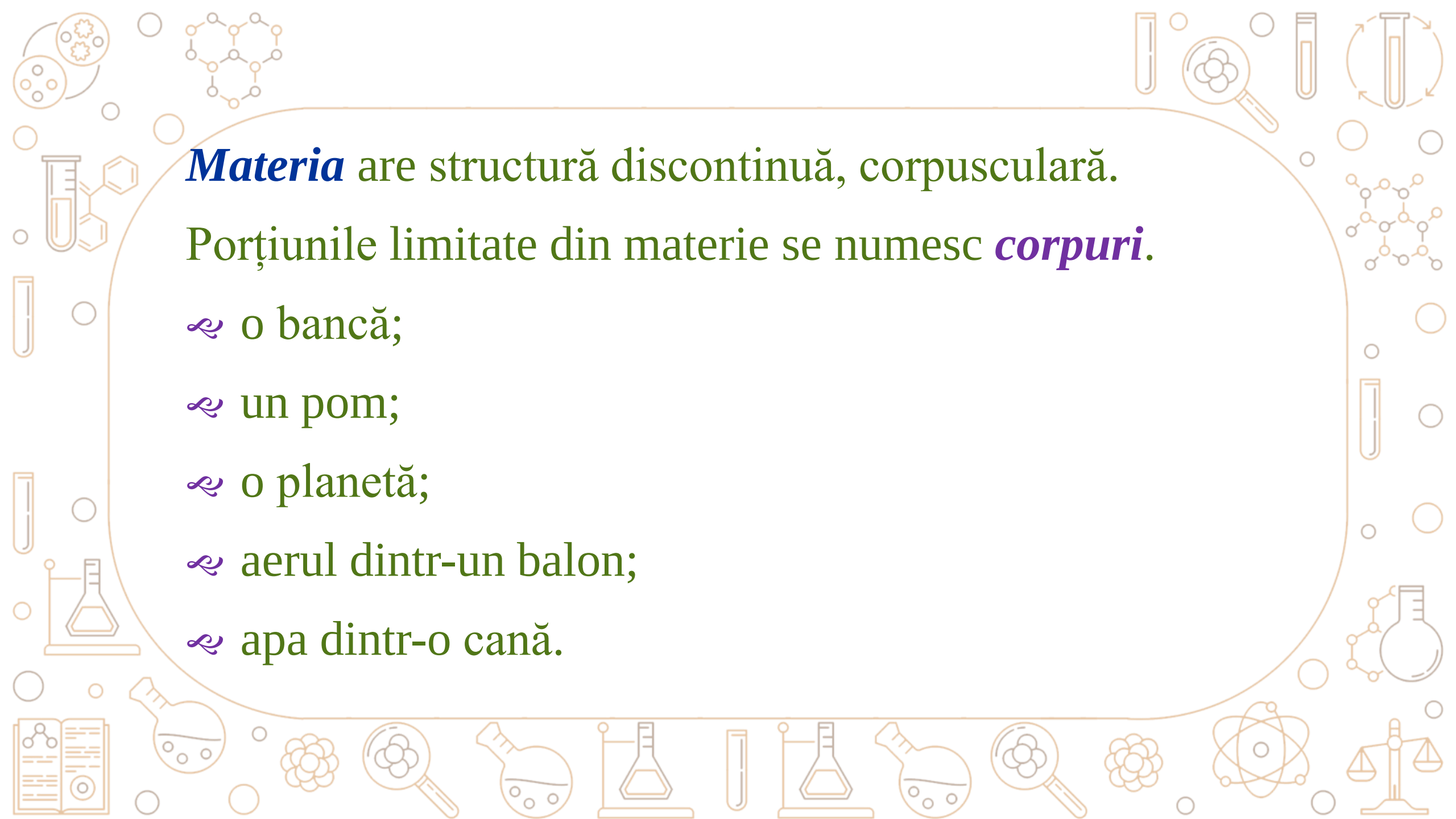
A decorative border surrounds the central text, featuring various chemistry-related icons in a light orange line-art style. The icons include molecular structures, test tubes, flasks, a magnifying glass over a cluster of atoms, a balance scale, an atomic model, a book, and various geometric shapes like circles and hexagons.

A decorative border surrounds the central text area, featuring various chemistry-related icons in a light orange color. These include test tubes, beakers, flasks, molecular structures, a magnifying glass over a cluster of atoms, a balance scale, and a book. The icons are arranged in a circular pattern around the central text.

***Universul*** este alcătuit din materie.

***Materia*** are următoarele proprietăți:

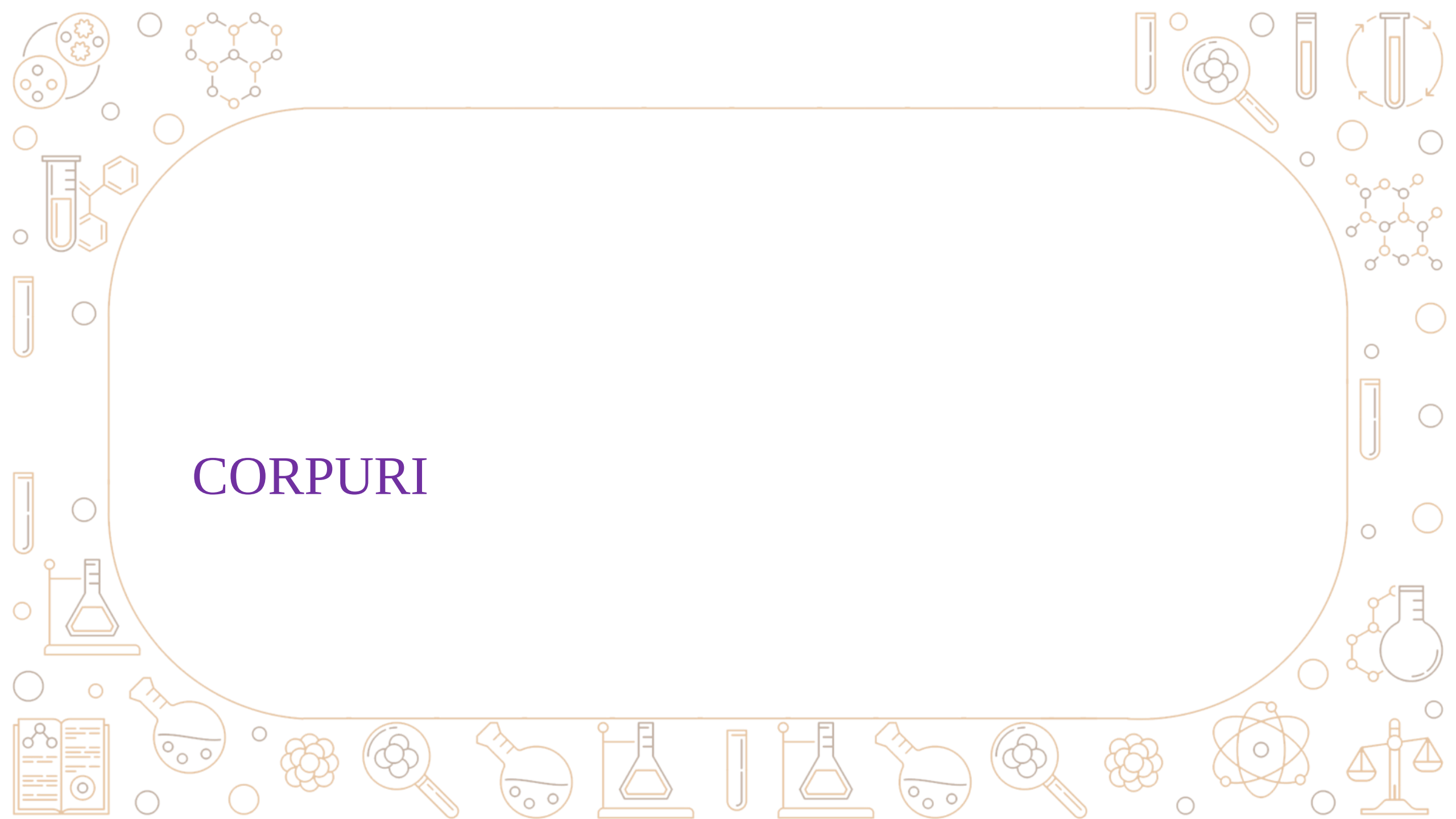
- ❧ ocupă un spațiu;
- ❧ prezintă o masă proprie;
- ❧ se găsește în continuă transformare;
- ❧ apare sub diferite forme.

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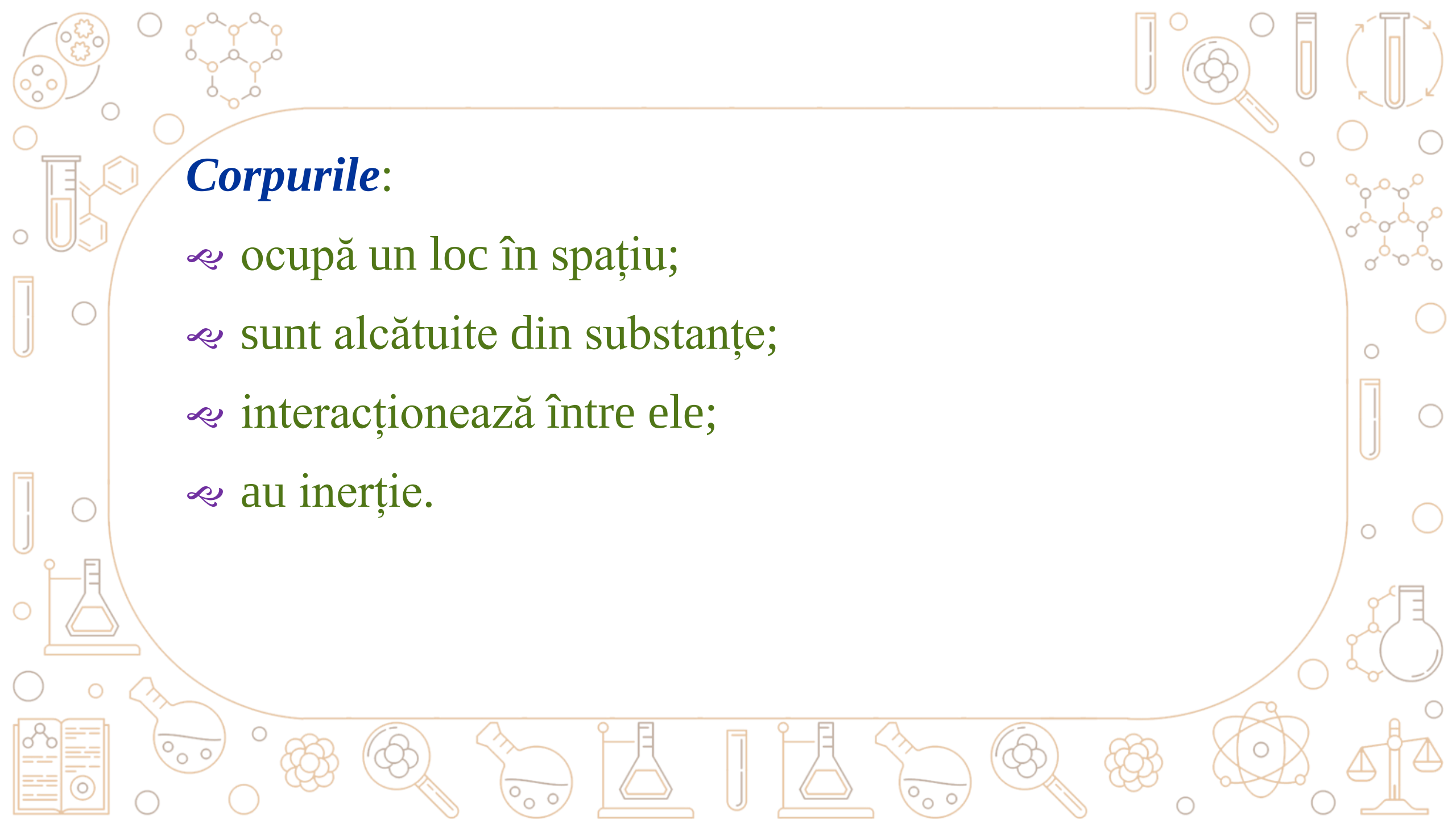
***Materia*** are structură discontinuă, corpusculară.

Porțiunile limitate din materie se numesc ***corpuri***.

- ❧ o bancă;
- ❧ un pom;
- ❧ o planetă;
- ❧ aerul dintr-un balon;
- ❧ apa dintr-o cană.

A decorative border of chemistry-related icons in orange and purple outlines surrounds a central white rounded rectangle. The icons include test tubes, flasks, molecular structures, a magnifying glass over a cluster of atoms, a balance scale, an atomic model, a book, and various geometric shapes like circles and hexagons.

CORPURI

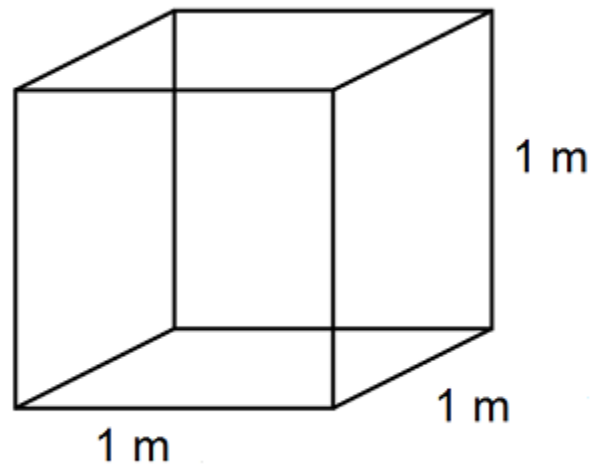
The slide features a decorative border composed of various chemistry-related icons in a light orange color. These icons include test tubes, beakers, flasks, molecular structures, a magnifying glass over a cluster of atoms, a balance scale, and a book. The central text is enclosed in a large, rounded rectangle with a thin orange border.

## **Corpurile:**

- ✧ ocupă un loc în spațiu;
- ✧ sunt alcătuite din substanțe;
- ✧ interacționează între ele;
- ✧ au inerție.

Locul ocupat de un corp în spațiu este măsurat prin mărimea fizică numită **volum** ( $V$ ).

Unitatea de măsură pentru volum este **metrul cub** ( $1\text{ m}^3$ ).





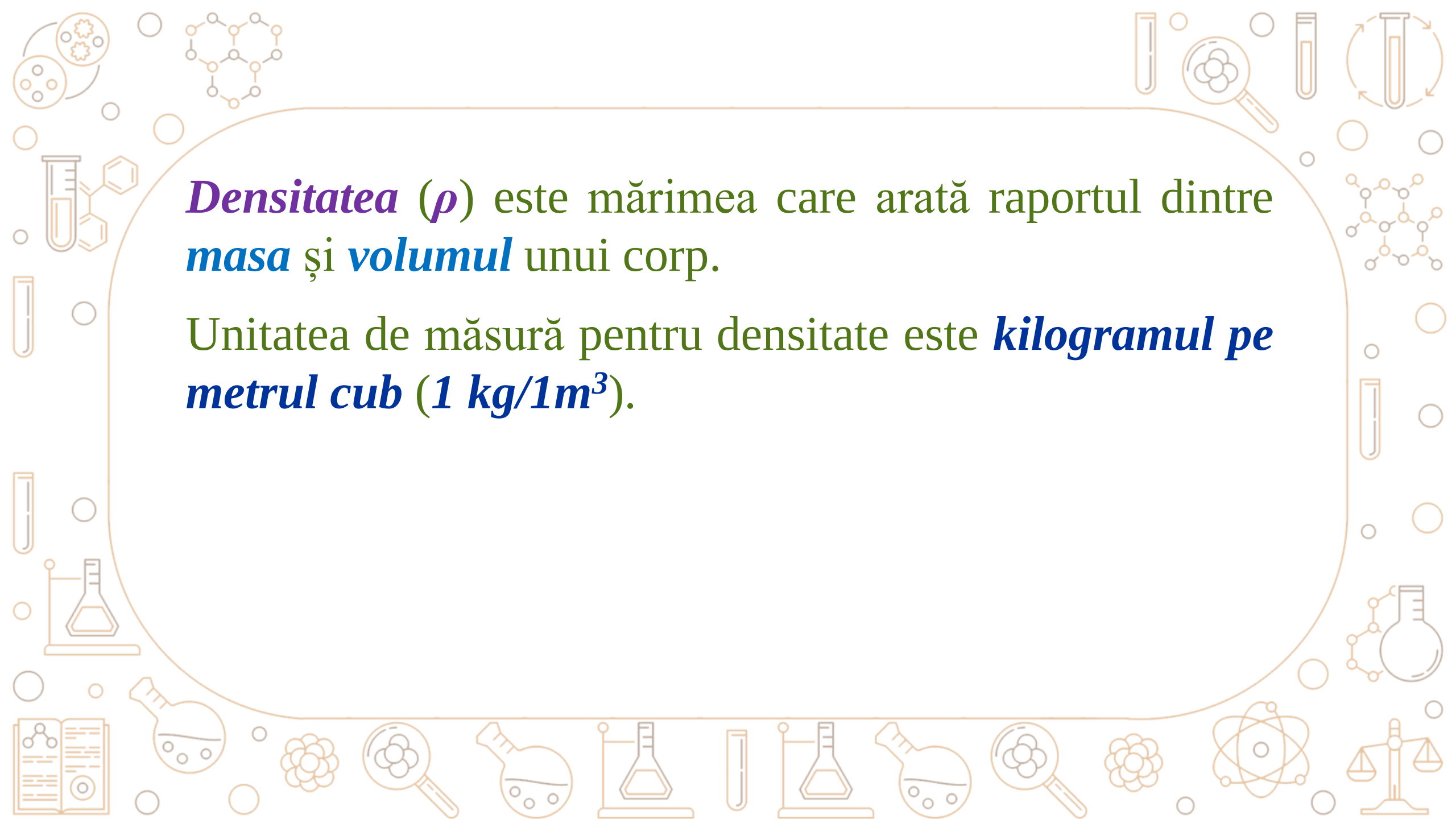
***Inerția*** unui corp reprezintă proprietatea acestuia de a se opune schimbării stării de repaus sau de mișcare rectilinie și uniformă.

Inerția este măsurată prin mărimea fizică numită ***masă*** (***m***).

Unitatea de măsură pentru masă este ***kilogramul*** (***1 kg***).



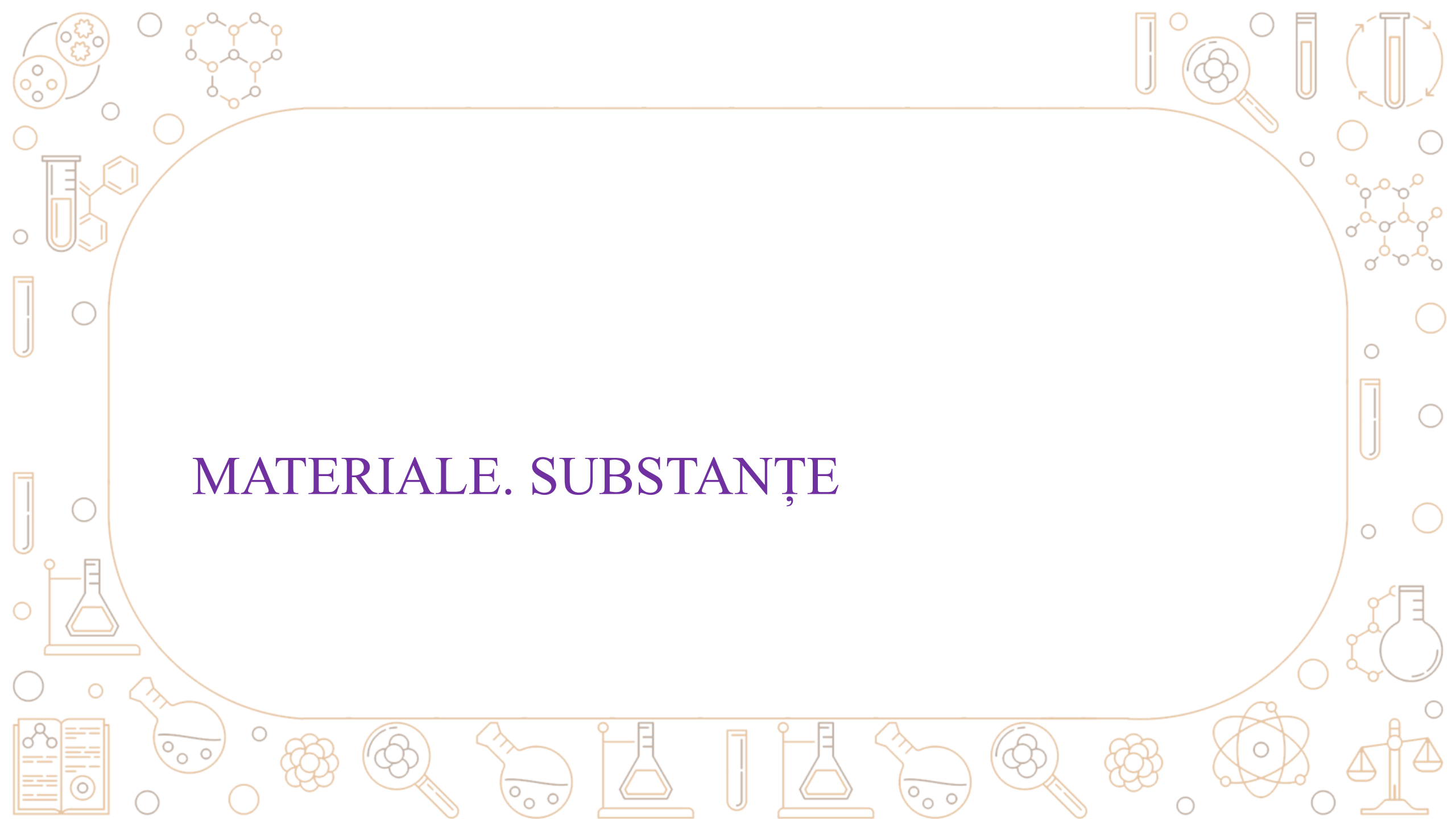


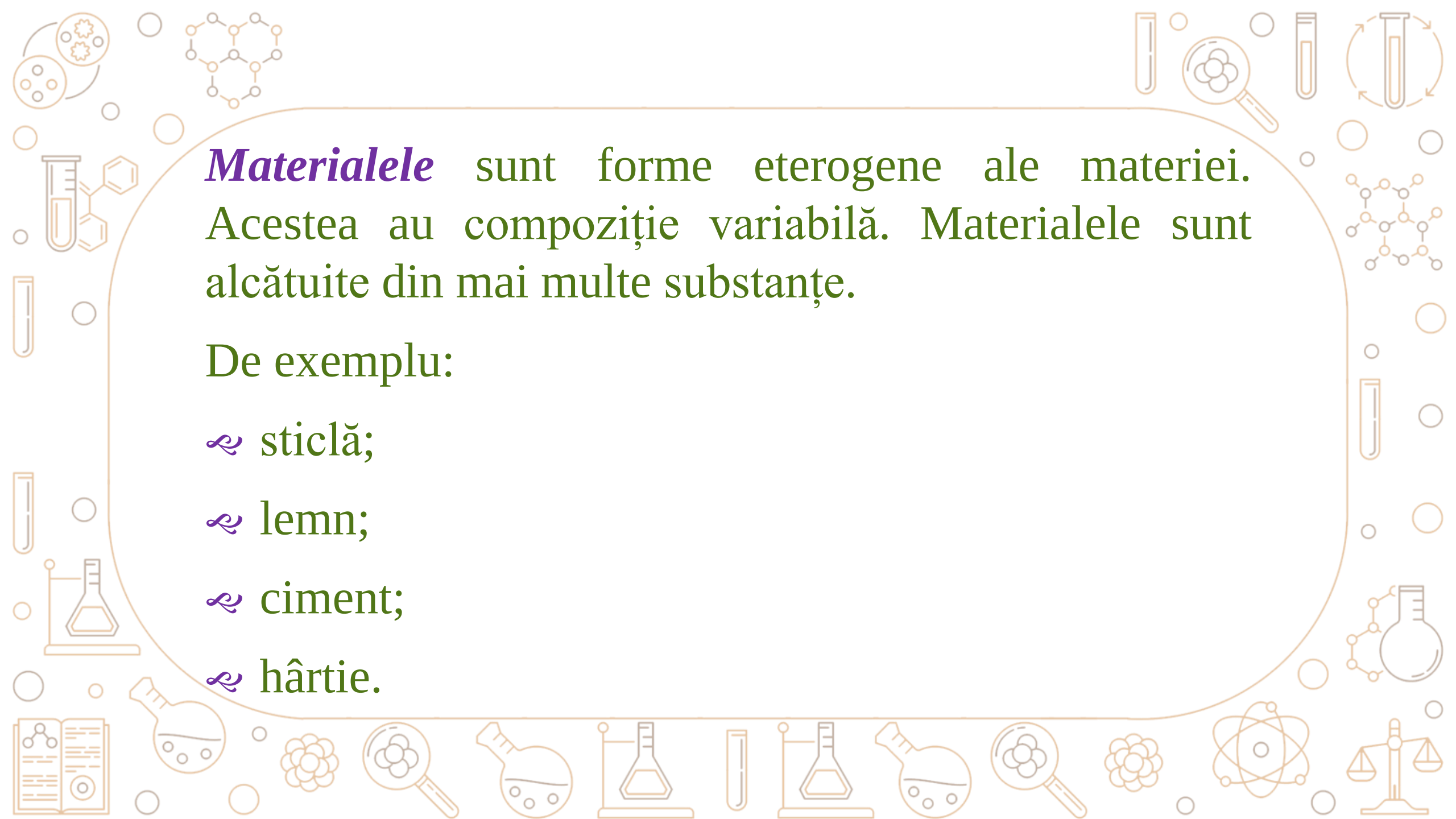
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**Densitatea** ( $\rho$ ) este mărimea care arată raportul dintre **masa** și **volumul** unui corp.

Unitatea de măsură pentru densitate este **kilogramul pe metrul cub** ( $1 \text{ kg/m}^3$ ).

# MATERIALE. SUBSTANȚE

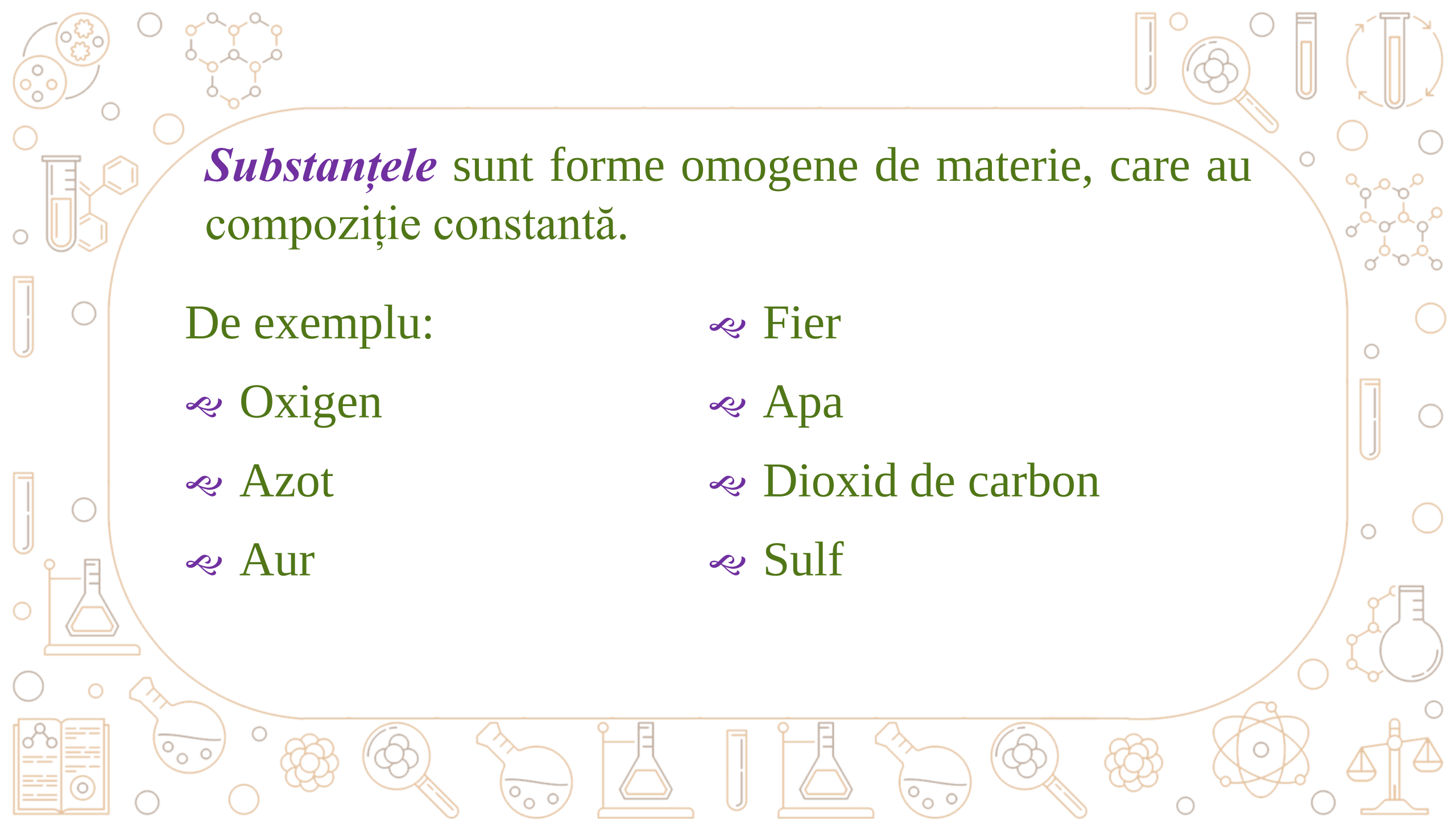
A decorative border surrounds the central text, featuring various chemistry-related icons in a light orange color. The icons include molecular structures, test tubes, flasks, a magnifying glass over a cluster of atoms, a balance scale, a book, and a central atom model. The border is composed of these icons interspersed with small circles.

A decorative border surrounds the central text area, featuring various chemistry-related icons in a light orange color. These include test tubes, beakers, flasks, molecular structures, a magnifying glass over a cluster of atoms, a balance scale, and a book. The icons are arranged in a circular pattern around the central text.

***Materialele*** sunt forme eterogene ale materiei. Acestea au compoziție variabilă. Materialele sunt alcătuite din mai multe substanțe.

De exemplu:

- ❧ sticlă;
- ❧ lemn;
- ❧ ciment;
- ❧ hârtie.

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***Substanțele*** sunt forme omogene de materie, care au compoziție constantă.

De exemplu:

❧ Oxigen

❧ Azot

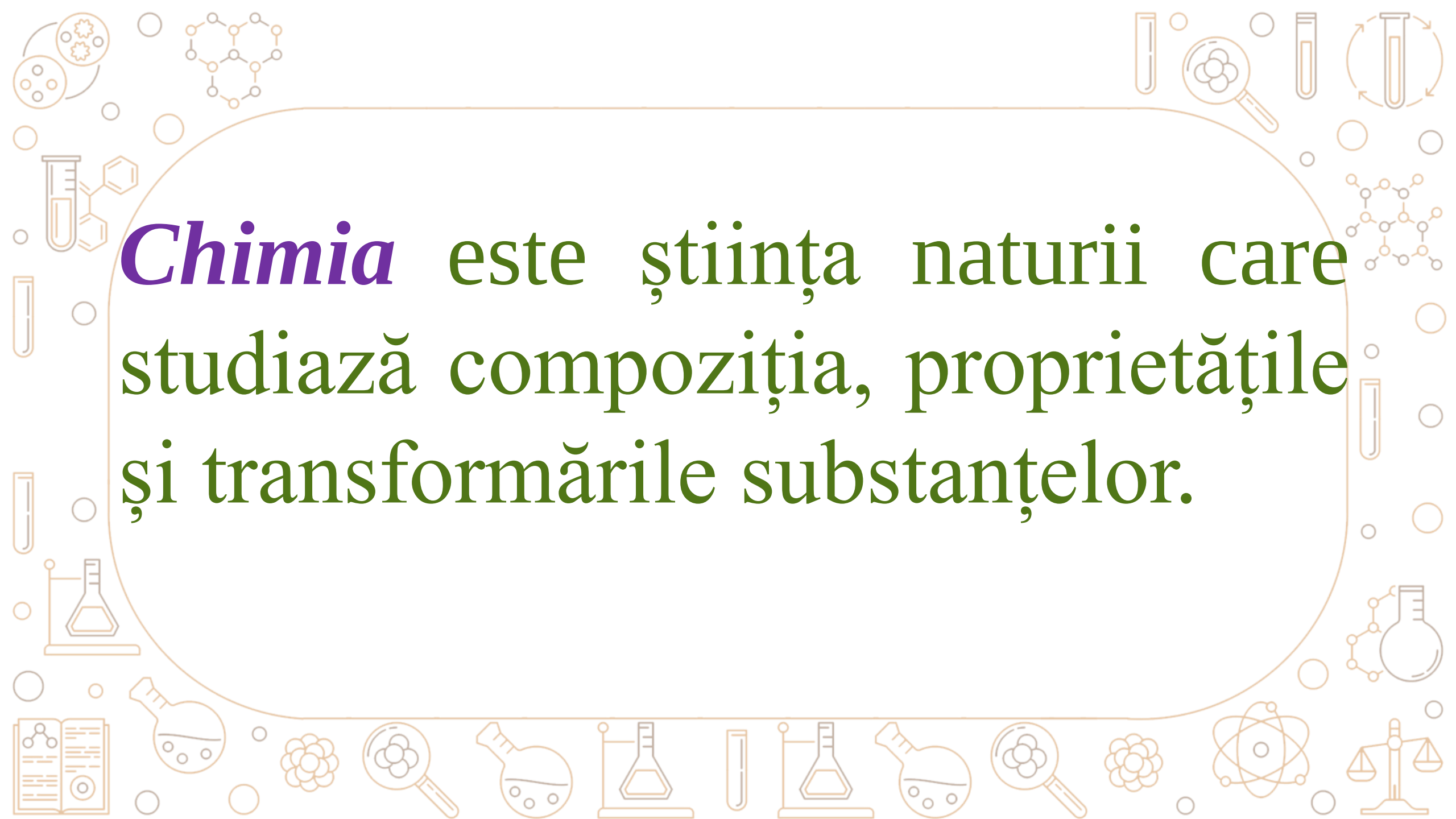
❧ Aur

❧ Fier

❧ Apa

❧ Dioxid de carbon

❧ Sulf

A decorative border surrounds the central text, featuring various chemistry-related icons in a light orange color. These include test tubes, beakers, flasks, molecular structures, a magnifying glass over a cluster of atoms, a balance scale, and a book. The icons are arranged in a circular pattern around the text, with some overlapping the text's border.

***Chimia*** este știința naturii care studiază compoziția, proprietățile și transformările substanțelor.