

Virtual labs PhET
By M.E. Mohammed Mehdi Saleh

جمهورية العراق
وزارة التعليم العالي والبحث العلمي
جامعة الأنبار



شعبة ابن سينا للتعليم الالكتروني

تقدم

Virtual Labs

المختبرات الافتراضية PhET
اعداد : م.م. محمد مهدي صالح

Simulations

► New Sims

- HTML5
- Physics
- Biology
- Chemistry
- Earth Science
- Math
- By Grade Level
- By Device
- All Sims
- Translated Sims

Teaching Resources

- Research
- Accessibility
- Donate

اختر التخصص
Choose the specialty



PhET for Every Classroom

Be an HTML5 Hero!

By converting our sims to HTML5, we make them seamlessly available across platforms and devices. Whether you have laptops, iPads, chromebooks, or BYOD, your favorite PhET sims are always right at your fingertips.

Become part of our mission today, and transform the learning experiences of students everywhere!

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New Sims



Expression Exchange



Graphing Slope-Intercept



Function Builder: Basics

قائمة التخصصات المتوفرة

The list of specialties available

Simulations

New Sims

HTML5

► Physics

Motion

Sound & Waves

Work, Energy & Power

Heat & Thermo

Quantum Phenomena

Light & Radiation

Electricity, Magnets & Circuits

Biology

Chemistry

Earth Science

Math

By Grade Level

By Device

All Sims

Translated Sims

انقر على التجربة المطلوبة
Click the required experiment



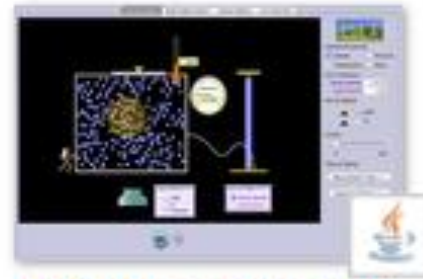
Alpha Decay



Atomic Interactions



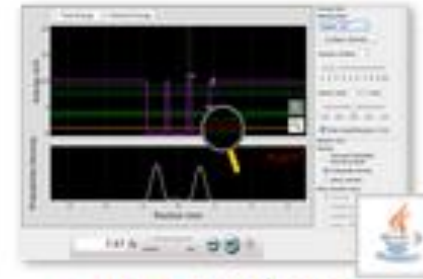
Balancing Act



Balloons & Buoyancy



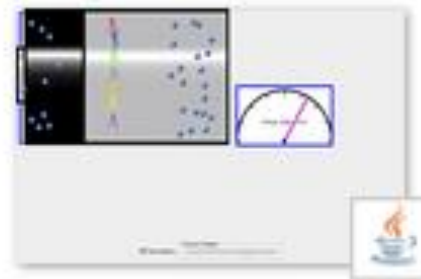
Balloons and Static Electricity



Band Structure



Battery-Resistor Circuit



Battery Voltage



Bending Light

Simulations

New Sims

HTML5

Physics

Motion

Sound & Waves

Work, Energy & Power

Heat & Thermo

► Quantum Phenomena

► Light & Radiation

Electricity, Magnets &
Circuits

Biology

► Chemistry

► General Chemistry

Quantum Chemistry

Earth Science

Math

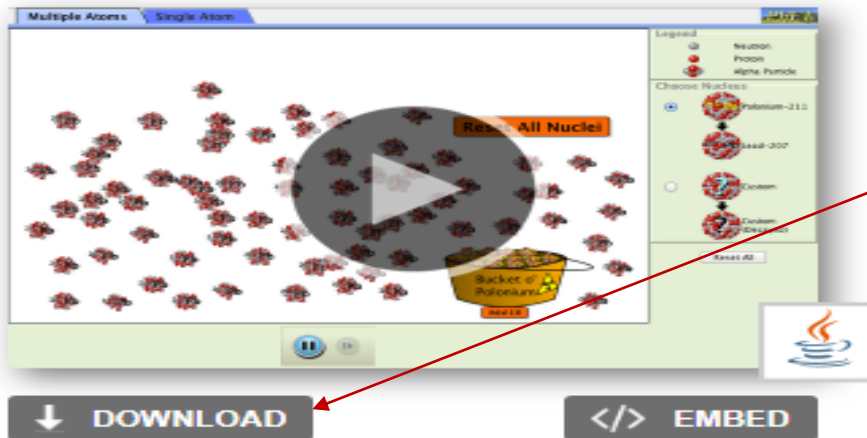
By Grade Level

Elementary School

► Middle School

► High School

Alpha Decay



- Alpha
- Half
- Rad

قم بتحميل التجربة
Download the experiment

W. H.
FREEMAN
and educators like you.

- 1 ► ABOUT
- 2 ► FOR TEACHERS
- 3 ► TRANSLATIONS
- 4 ► RELATED SIMULATIONS
- 5 ► SOFTWARE REQUIREMENTS
- 6 ► CREDITS

بعد تحميل التجربة انقر على حفظ
After download the
experiment, click keep

- ١- شرح التجربة
- ٢- لاجل الأستاذ
- ٣- تغيير لغة التجربة
- ٤- تجارب ذات صلة
- ٥- البرامج المطلوب تنصيبها
- ٦- المصممين



This type of file can harm your computer. Do you want to keep alpha-decay_en.jnlp anyway?

Keep

Discard

قم بفتح الملف لتظهر لك الشاشة ادناه
انقر على تشغيل
ملاحظة: يجب تنصيب برنامج (جافا)
لتشغيل المختبرات

Do you want to run this application?



Name: PhET Simulation

Publisher: University Of Colorado at Boulder - ...

Location: <https://phet.colorado.edu>

This application will run with limited access that is intended to protect your computer and personal information.

Do not show this again for apps from the publisher and location above



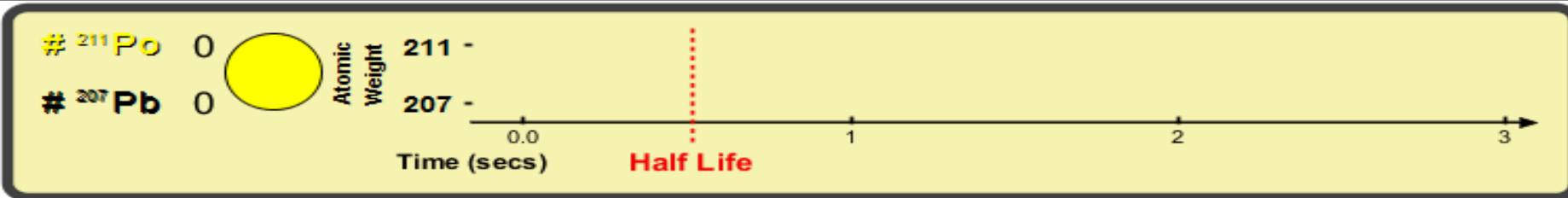
More Information

Run

Cancel

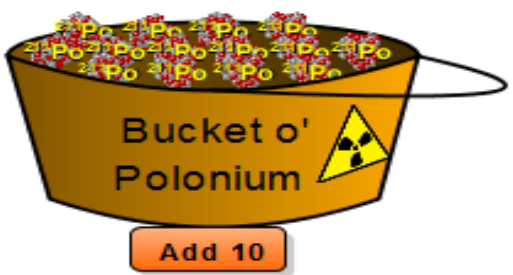
Multiple Atoms

Single Atom



Reset All Nuclei

ابدأ العمل حسب تخصصك



Legend

- Neutron
- Proton
- Alpha Particle

Choose Nucleus

- Polonium-211
- Lead-207
- Custom
- Custom (Decayed)

Reset All

