

Virtual labs PhET  
By M.E. Mohammed Mehdi Saleh

جمهورية العراق  
وزارة التعليم العالي والبحث العلمي  
جامعة الانبار



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



**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**



قائمة التخصصات المتوفرة  
The list of specialties  
available

### Simulations

New Sims

HTML5

Physics

Biology

Chemistry

▶ **Earth Science**

Math

By Grade Level

By Device

All Sims

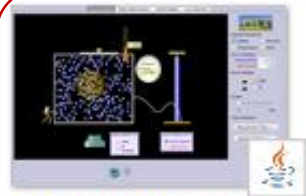
Translated Sims

### Teaching Resources

Research

Accessibility

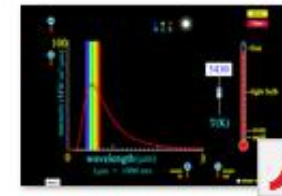
Donate



Balloons & Buoyancy



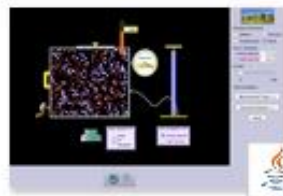
Balloons and Static Electricity



Blackbody Spectrum



Fluid Pressure and Flow



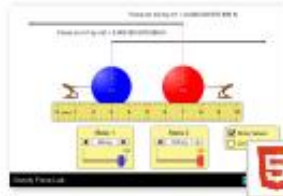
Gas Properties



Glaciers



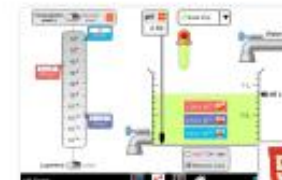
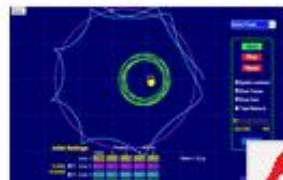
Gravity And Orbits



Gravity Force Lab



The Greenhouse Effect



مختبر علوم الأرض في PhET  
- للانتقال الى التجربة انقر على التجربة  
المطلوبة .

## 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

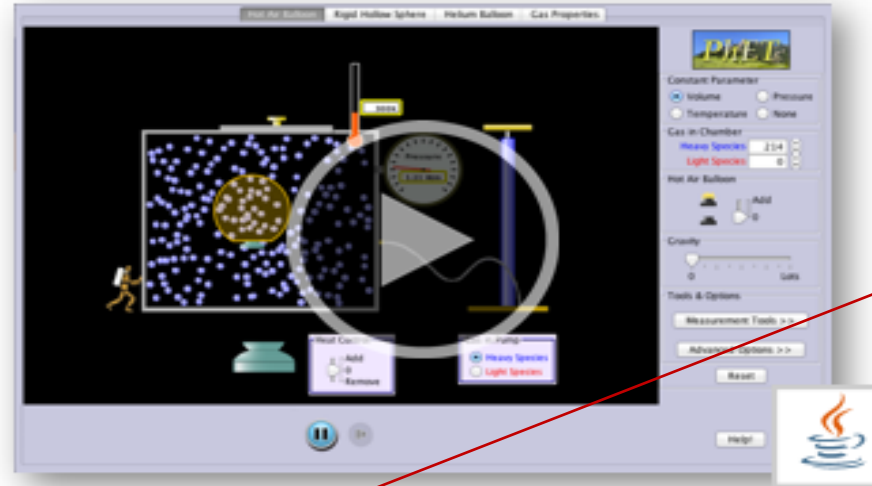
Elementary School

#### ► Middle School

#### ► High School

#### ► University

## Balloons & Buoyancy



↓ DOWNLOAD

</> EMBED

- Gas
- Buoyancy



قم بتحميل التجربة  
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- ABOUT
- FOR TEACHERS
- TRANSLATIONS
- RELATED SIMULATIONS
- SOFTWARE REQUIREMENTS

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experiment, click keep



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Keep

Discard

قم بتحميل التجربة  
Download the experiment

Physics

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Quantum Phenomena

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Electricity, Magnets &  
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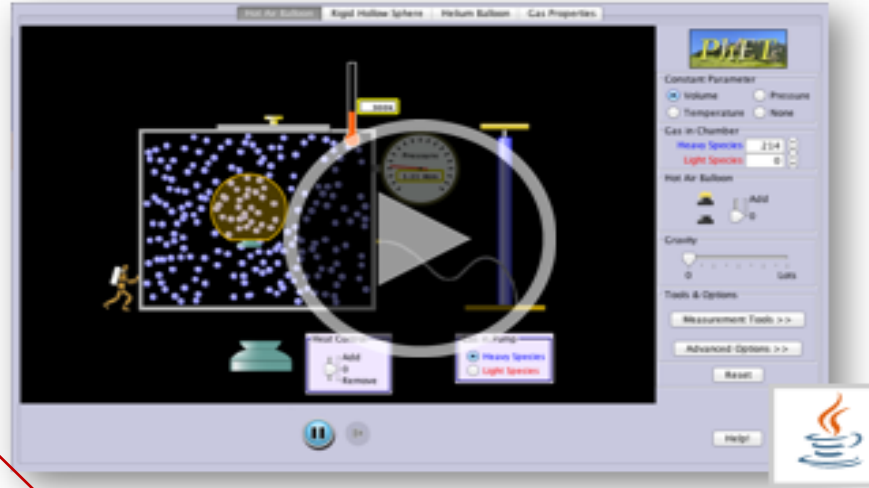
Elementary School

Middle School

High School

University

## Balloons & Buoyancy



DOWNLOAD

EMBED

- Gas
- Buoyancy



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- ▶ FOR TEACHERS
- ▶ TRANSLATIONS
- ▶ RELATED SIMULATIONS
- ▶ SOFTWARE REQUIREMENTS
- ▶ CREDITS

- 1- شرح التجربة
- 2- لاجل الأستاذ
- 3- تغيير لغة التجربة
- 4- تجارب ذات صلة
- 5- البرامج المطلوب تنصيبها
- 6- المصممين

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

# محاكاة التجربة ابدأ العمل حسب تخصصك

File Help

Hot Air Balloon Rigid Hollow Sphere Helium Balloon Gas Properties

The main simulation area features a large grey chamber containing a brown hot air balloon. To the right, a blue pump with a yellow handle is connected to the chamber by a grey tube. A pressure gauge labeled 'Pressure' shows a reading of '0.00 Atm'. A red arrow points to the pump handle with the text 'Pump the handle!'. An 'OK' button is located near the pump. At the bottom left, a small figure of a person is visible. Below the chamber, there are two control panels: 'Heat Control' with a slider set to 0 and 'Gas in Pump' with radio buttons for 'Heavy Species' (selected) and 'Light Species'.



Constant Parameter  
 Volume  Pressure  
 Temperature  None

Gas in Chamber  
Heavy Species 0  
Light Species 0

Hot Air Balloon  
Add  
0

Gravity  
0 Lots

Tools & Options  
Measurement Tools >>  
Advanced Options >>

Reset

Pause Play

Help!