



## The Theory of Relativity

### Session Info

#### Session Title (to be printed in program, if proposal is selected)

The Theory of Relativity

#### Session Description (to be printed in program, if proposal is selected)

Two objects exert a force of attraction on one another known as "gravity." The force tugging between two bodies depends on how massive each one is and how far apart the two lie. Even as the center of the Earth is pulling you toward it (keeping you firmly lodged on the ground), your center of mass is pulling back at the Earth.

#### What will attendees be doing during the session?

Attendees will learn hands-on activities that demonstrate that the laws of physics are the same for all non-accelerating observers to understand that the speed of light within a vacuum is the same no matter the speed at which an observer travels.

#### Outcomes/Takeaways

- 1) Understanding of the theory of relativity
- 2) Understanding of the speed of light
- 3) Understanding of space-time continuum

#### Describe up to three (3) ways this session aligns with research, best practice, and/or standards. If your session aligns with the TEKS, list up to three (3) specific standards that will be covered in your session.

TEKS Phy.5A

#### Grade Level (Choose Up to 3)

9-12

#### Subject Area

HS Physics

#### Additional Keywords

Classroom Activities  
PBL (Project/Problem-Based Learning)  
Professional Development Programs

#### Audience

Classroom Teachers  
District Supervisor

**What is the maximum number of attendees your session can accommodate?**

100

**Logistics**

**Presentation Format**

Demonstration/Hands-on Investigation/Roundtable Discussion (1 hour)

**Audiovisual Equipment**

I understand.

**Due to considerations related to COVID19, if restrictions are necessary (including masks requirements & social distancing) are you comfortable adjusting your presentation style based on these restrictions?**

Yes

**Submitter Only**

<b>Organization</b>	Newton High School
<b>First Name</b>	Albert
<b>Last Name</b>	Einstein
<b>Degrees/Certifications</b>	PhD
<b>Title/Position</b>	AP Physics Teacher
<b>Email</b>	stat@statweb.org
<b>Cell Phone</b>	1234567890

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Yes

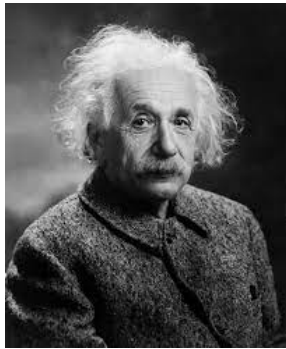
**Please provide an additional email address as backup in case of firewall issues (e.g., Gmail, Yahoo, etc.).**

einstein@statweb.org

**Presenter Bio**

Albert Einstein is a German-born physicist who developed the special and general theories of relativity and won the Nobel Prize for Physics in 1921 for his explanation of the photoelectric effect. Einstein is generally considered the most influential physicist of the 20th century.

**Presenter Headshot**



**Is this session linked to the sale of any science-related products? This includes classroom equipment/supplies, curriculum, Teachers Pay Teachers products, books, etc.**

No

**Are you submitting this proposal on behalf of a commercial entity or enterprise?**

No

**T-Shirt Size**

Large

**Speaker Policy Agreement**

I agree to all terms listed above.

#### **LEAD PRESENTER**

<b>Organization</b>	Newton High School
<b>First Name</b>	Albert
<b>Last Name</b>	Einstein
<b>Degrees/Certifications</b>	PhD
<b>Title/Position</b>	AP Physics Teacher
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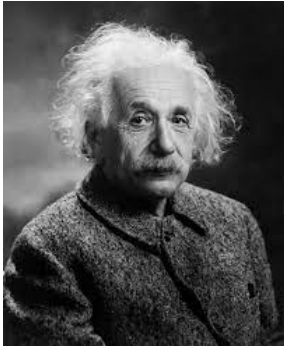
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