FunScienceDemos

The YouTube Channel & a Community of Practice (CoP) With a Regional, National, and Global Presence

Supporting K-8 Teachers & Students of Science

Every important science concept students should know before high school
fun science demos

A YouTube Channel & Global Community for K to 8 Science & Engineering Education

Engaging & fun science & engineering videos tied to every important science concept that students should know before they enter high school. New videos every week. Free to share & download.


Live Streaming Events can be produced through the channel for users and creators to meet online and discuss science education on a regular basis.

Please Subscribe

A dynamic community for engineering & science education professional development. Feedback and support for helping teachers and students. Using collaborative online tools.

A global resource for engineering & science education. Using translation tools to make every English caption able to be translated into virtually any language in the world.

Analytics provide powerful metrics to inform the extent of global use & community benefits. Over 10,000 views per day and over 12,000 subscribers, as of March 2017.

Strategic Partners

ASM MATERIALS EDUCATION FOUNDATION
College of Science and Technology TEMPLE UNIVERSITY
Welcome to FunScienceDemos!

22,069 views • 2 years ago

Check out our channel FunScienceDemos:
https://www.youtube.com/user/funscien...

Important science & engineering ideas for all young students. Dr. George Mehler & Jared Hottenstein invite you to bring fun science demonstrations to your students & children. We add new videos each month. Please subscribe. Need science readings, writing prompts & more for your students? Visit READ MORE

<table>
<thead>
<tr>
<th>WATCH TIME (MINUTES)</th>
<th>VIEWS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,412,973</td>
<td>1,487,050</td>
</tr>
</tbody>
</table>

**Graph:**
- **Views**
- X-axis: Dates from May 30, 2013 to March 6, 2017
- Y-axis: Views ranging from 0 to 12,000
- The graph shows a significant increase in views from early 2016 onwards.
100th science video produced & posted

Year 1: 2015-2016

Year 2: 2016-2017


Watch Time (Minutes): 3,559,012
Views: 1,553,984
Every month more than 200 countries and regions of the world visit FunScienceDemos...
<table>
<thead>
<tr>
<th>Geography</th>
<th>Watch time (minutes)</th>
<th>Views</th>
<th>Average view duration</th>
<th>Average percentage viewed</th>
</tr>
</thead>
<tbody>
<tr>
<td>California</td>
<td>616,416 (15%)</td>
<td>286,468 (15%)</td>
<td>2:09</td>
<td>54%</td>
</tr>
<tr>
<td>Texas</td>
<td>471,832 (11%)</td>
<td>211,620 (11%)</td>
<td>2:13</td>
<td>54%</td>
</tr>
<tr>
<td>Florida</td>
<td>248,294 (6.0%)</td>
<td>113,607 (6.1%)</td>
<td>2:11</td>
<td>55%</td>
</tr>
<tr>
<td>New York</td>
<td>233,070 (5.6%)</td>
<td>106,221 (5.7%)</td>
<td>2:11</td>
<td>53%</td>
</tr>
<tr>
<td>Georgia</td>
<td>174,906 (4.2%)</td>
<td>75,957 (4.1%)</td>
<td>2:18</td>
<td>52%</td>
</tr>
<tr>
<td>Illinois</td>
<td>159,409 (3.9%)</td>
<td>74,657 (4.0%)</td>
<td>2:08</td>
<td>52%</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>155,361 (3.8%)</td>
<td>78,697 (4.2%)</td>
<td>1:58</td>
<td>50%</td>
</tr>
<tr>
<td>New Jersey</td>
<td>132,709 (3.2%)</td>
<td>60,719 (3.2%)</td>
<td>2:11</td>
<td>52%</td>
</tr>
</tbody>
</table>
Akina and FunScienceDemos
Who could use these resources?

There are approximately 3.6 million elementary and secondary teachers in America.

- 1.8 million teachers at the elementary level could use FunScienceDemos.
- 1.0 million teachers of middle school years, many who never studied science, could also use the FunScienceDemos to build science knowledge for themselves and their students.
- Students at both levels (elementary and middle school) in America and around the world would have access to all three parts.
What are teachers and students saying about FSD?

Kino1234 4 days ago
This looks really useful for my Grade 3 students!
Reply - 1 🙌

funscience demos 4 days ago
+Kino1234 we are glad to hear this! We will keep releasing more videos like this regularly, stay tuned!
Reply - 1 🙌

luisitadb 1 week ago
Jared you simply RULE! I am using this this arvo with some deaf kids. Most videos are just rubbish for my needs. Your enthusiasm, and gestures and captioning are sooooooooo helpful. thanks!
Reply - 1 🙌

funscience demos 1 week ago
+luisitadb This is great feedback!! We are so happy Jared has been able to be the difference. Thank you for letting us know
Reply - 1 🙌

Joanne Murphy 2 weeks ago
Great video! I just used this in my ESL class in Vietnam! It really helped them to understand erosion.
Reply - 1 🙌

funscience demos 2 weeks ago
+Joanne Murphy What a wonderful piece of feedback, we are so glad to hear that these videos are being used globally. Check out the rest of the videos on our channel for more demonstrations! Also, just so you know, the captioning can be translated into almost any language, in case this may be of use to you in the classroom.
Reply - 1 🙌
Amany El-Gendy 3 weeks ago
I showed this video to my students in my science class today! I just wanted to thank you for the thought out, easy paced, and educational information you’ve provided. They were super engaged and trying to make predictions as the video went along. Keep up the great work!

Reply 1 Like

funsciencedemos 3 weeks ago
+Amany El-Gendy It is so wonderful to hear that our work is being used in the classroom...that kind of reaction from students is exactly what we are looking for. Thank you for your work as a teacher, and stay tuned to our channel FunScienceDemos for more videos coming soon!

Reply 1 Like

Mau Jo 3 weeks ago
Jarred, could you show us a good experiment to show plate tectonics in Earth Science class? I want to show my students the convection currents, but don't quite know how with simple tools. Thanks and keep up the good work!

Reply 1 Like

funsciencedemos 3 weeks ago
+Mau Jo Hello Mau Jo, there are a few videos that describe plate tectonics on our Channel. Plate Tectonics - Heat Moves Matter is one of them, and What Causes Earthquakes is another. Just go to our channel home page, FunScienceDemos, and you will be able to find both of these videos as well as hundreds more on a variety of topics.

Reply 1 Like
Sapana Sharma 2 months ago
It's really amazing way to show how muscles actually work. Piz can u tell me how u did it? I need it for my son's sci project. Thnx!!

Reply 1

FunScienceDemos 2 months ago
+Sapana Sharma If you can direct message us your email address via YouTube or our Facebook Page or Twitter (@FunScienceDemos) we can absolutely attach the PDF of the instructions on how to make this model.

Reply 1

Dave Normandin 3 months ago
This was GREAT! Homeschooling my kindergartner, and it was totally useful and funny, too! He really enjoyed it! Thanks!

Reply 1

FunScienceDemos 3 months ago (edited)
+Dave Normandin We are so glad to hear that, thank you for your feedback! We really appreciate it. Make sure you look into the other videos on our channel.

Reply 1

Jim Jones 3 months ago
you just made learning fun

Reply 1

FunScienceDemos 3 months ago
+Jim Jones We are so happy you share our joy in exploring science!
Cauliflower Smith 6 months ago
thank you thank you thank you. i am a first year teacher and i am trying to teach my 9 year old students about erosion, and this experiment and video are perfect!

Reply · 2

fusciencedemos 6 months ago
+ Cauliflower Smith You are very welcome! We are happy to help, and please subscribe to and spread the word about our channel!

Reply · 1

Haris Wahedi 6 months ago
Thanks for teaching me this!

Reply · 2

fusciencedemos 6 months ago
+ Haris Wahedi You are welcome! Thank you for all of your support

Reply · 1

florentino garcia 7 months ago
I feel like these videos are finally helping me understand and learn better! I didn't realize how things begin to make sense when I can see what's going on.

Reply · 1

fusciencedemos 7 months ago
+ florentino garcia thanks for commenting florentino and we hope you can subscribe to our channel and help others to learn and see the fun of science.

Reply · 1

Hilmi Yusuf Shahril 7 months ago
Pls make more vids

Reply · 1

fusciencedemos 6 months ago
+ Hilmi Yusuf Shahril We will be adding more videos consistently starting in September. Subscribe to our channel and we will do our best to keep new videos coming!

Reply · 1
Thank You
FunScienceDemos - The YouTube Dashboard
<table>
<thead>
<tr>
<th>Title</th>
<th>Duration</th>
<th>Date</th>
<th>Views</th>
<th>Likes</th>
<th>Dislikes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring Light</td>
<td>2:51</td>
<td>May 22, 2014</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Life is Made of Cells</td>
<td>2:22</td>
<td>May 14, 2014</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Design and Test a Car</td>
<td>6:51</td>
<td>May 14, 2014</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Design, Build and Test a Boat</td>
<td>6:55</td>
<td>Apr 30, 2014</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Life Cycle of Brine Shrimp</td>
<td>3:15</td>
<td>Apr 23, 2014</td>
<td>6,212</td>
<td>7</td>
<td>27</td>
</tr>
</tbody>
</table>
Life Cycle of Brine Shrimp

Jared hatches some brine shrimp eggs and explains the life cycle of this cool animal. Click on: http://learningscience.org/lsc1/lifecycles.htm or http://learningscience.org/lsc1characteristics.htm to learn more about life cycles. The video is available on our companion website.
Hi, I am Jared, welcome to Fun Science Demos. The big idea today is life cycles.

All living things go through steps and a life cycle, and today we are going to talk about a living thing that goes through its life cycle in weeks. We have zoomed in so you can see the living thing we are going to talk about today.

It is actually a really small type of shrimp called the brine shrimp,
FunScienceDemos Dashboard

COMMUNITY

TIPS

- Want to grow an audience?
  Learn tips to gain viewers and keep them coming back in our new boot camp running March 4-20. Sign up now

- Ready to start vlogging?
  View all

COMMENTS

- Maduwantha Gamalath 2 days ago
  omg u r soo cool.....i'm gonna use this in ma school project woooow......thank you so much on Balancing Balloons - Air Has Weight

- jessica Moore 2 days ago
  I like this video. tell me how you did it on Muscles Moving Your Bones

- jessica Moore 2 days ago
  thanks for letting me know. can I call you mr.jared ? on Erosion and Soil

- Benedict Balbido 3 days ago
  nice man keep up the good work and keep hatching those brine shrimp on Life Cycle of Brine Shrimp

VIDEOS

- We Communicate with Patterns
  Edit
  Simple Machines The Lever
Published comments

Maduwantha Gamalath  2 days ago
Omg ur soo cool.... I'm gonna use this in my school project woooo... thank you so much

jessica Moore  2 days ago
I like this video. tell me how you did it

jessica Moore  2 days ago
thanks for letting me know. can I call you mr jared ?

Benedict Balbido  3 days ago
nice man keep up the good work and keep hatching those brine shrimp

GET INTO SITE  4 days ago
Keep it up

Hold for review

Likely spam

2

Search comments

All videos
<table>
<thead>
<tr>
<th>Video</th>
<th>Watch time (minutes)</th>
<th>Views</th>
<th>Likes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erosion and Soil</td>
<td>232,710 (36%)</td>
<td>71,962 (23%)</td>
<td>258</td>
</tr>
<tr>
<td>A Force is a Push or Pull</td>
<td>67,533 (11%)</td>
<td>48,793 (15%)</td>
<td>125</td>
</tr>
<tr>
<td>Muscles Moving Your Bones</td>
<td>32,851 (5.1%)</td>
<td>19,449 (6.1%)</td>
<td>79</td>
</tr>
<tr>
<td>What Causes Earthquakes</td>
<td>28,049 (4.3%)</td>
<td>10,046 (3.2%)</td>
<td>77</td>
</tr>
<tr>
<td>Balancing Balloons - Air Has Weight</td>
<td>22,350 (3.5%)</td>
<td>22,104 (6.9%)</td>
<td>53</td>
</tr>
<tr>
<td>Water Breaks Down Rocks</td>
<td>20,144 (3.1%)</td>
<td>5,278 (1.7%)</td>
<td>32</td>
</tr>
<tr>
<td>Static Electricity and the Balloon</td>
<td>18,399 (2.8%)</td>
<td>19,286 (6.1%)</td>
<td>39</td>
</tr>
<tr>
<td>Electric Circuits: Series and Parallel</td>
<td>15,726 (2.4%)</td>
<td>6,686 (2.1%)</td>
<td>40</td>
</tr>
<tr>
<td>Sound Light Travel in Waves</td>
<td>13,888 (2.2%)</td>
<td>5,951 (1.9%)</td>
<td>30</td>
</tr>
<tr>
<td>Life Cycle of Brine Shrimp</td>
<td>13,598 (2.1%)</td>
<td>6,198 (1.9%)</td>
<td>27</td>
</tr>
</tbody>
</table>

**Top geographies**

<table>
<thead>
<tr>
<th>Country</th>
<th>Watch time</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>92%</td>
</tr>
<tr>
<td>India</td>
<td>7.3%</td>
</tr>
<tr>
<td>Australia</td>
<td>6.1%</td>
</tr>
<tr>
<td>Canada</td>
<td>4.8%</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>4.8%</td>
</tr>
</tbody>
</table>

**Gender**

- Male (49%)
- Female (51%)

**Traffic sources**

- Suggested videos (33%)
- YouTube search (12%)
- External (13%)
- Other (22%)

**Playback locations**

- YouTube watch page (99%)
- Embedded in external websites and apps (3.9%)
- YouTube channel page (1.1%)
- Other (0.1%)
<table>
<thead>
<tr>
<th>Geography</th>
<th>Watch time (minutes)</th>
<th>Views</th>
<th>Average view duration</th>
<th>Average percentage viewed</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>332,925 (52%)</td>
<td>158,870 (50%)</td>
<td>2.05</td>
<td>52%</td>
</tr>
<tr>
<td>India</td>
<td>47,340 (7.3%)</td>
<td>23,193 (7.3%)</td>
<td>2.02</td>
<td>49%</td>
</tr>
<tr>
<td>Australia</td>
<td>36,312 (6.1%)</td>
<td>20,293 (6.4%)</td>
<td>1.56</td>
<td>56%</td>
</tr>
<tr>
<td>Canada</td>
<td>31,150 (4.8%)</td>
<td>16,220 (5.1%)</td>
<td>1.55</td>
<td>53%</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>31,156 (4.8%)</td>
<td>17,334 (5.4%)</td>
<td>1.47</td>
<td>55%</td>
</tr>
<tr>
<td>Philippines</td>
<td>25,454 (3.9%)</td>
<td>11,471 (3.6%)</td>
<td>2.13</td>
<td>52%</td>
</tr>
<tr>
<td>Country</td>
<td>Coverage 1</td>
<td>Coverage 2</td>
<td>Time 1</td>
<td>Time 2</td>
</tr>
<tr>
<td>-------------</td>
<td>------------</td>
<td>------------</td>
<td>--------</td>
<td>--------</td>
</tr>
<tr>
<td>Mexico</td>
<td>5,321 (0.8%)</td>
<td>2,184 (0.7%)</td>
<td>2:26</td>
<td>47%</td>
</tr>
<tr>
<td>Malaysia</td>
<td>5,190 (0.8%)</td>
<td>2,676 (0.8%)</td>
<td>1:56</td>
<td>56%</td>
</tr>
<tr>
<td>New Zealand</td>
<td>4,383 (0.7%)</td>
<td>2,396 (0.8%)</td>
<td>1:49</td>
<td>57%</td>
</tr>
<tr>
<td>South Africa</td>
<td>4,215 (0.7%)</td>
<td>1,696 (0.5%)</td>
<td>2:29</td>
<td>56%</td>
</tr>
<tr>
<td>Thailand</td>
<td>4,177 (0.6%)</td>
<td>2,128 (0.7%)</td>
<td>1:57</td>
<td>50%</td>
</tr>
<tr>
<td>Indonesia</td>
<td>3,298 (0.5%)</td>
<td>1,791 (0.6%)</td>
<td>1:50</td>
<td>50%</td>
</tr>
<tr>
<td>Ecuador</td>
<td>2,875 (0.4%)</td>
<td>1,167 (0.4%)</td>
<td>2:27</td>
<td>37%</td>
</tr>
<tr>
<td>Ireland</td>
<td>2,465 (0.4%)</td>
<td>1,399 (0.4%)</td>
<td>1:45</td>
<td>47%</td>
</tr>
<tr>
<td>Pakistan</td>
<td>2,209 (0.3%)</td>
<td>983 (0.3%)</td>
<td>2:14</td>
<td>51%</td>
</tr>
<tr>
<td>Vietnam</td>
<td>2,163 (0.3%)</td>
<td>1,559 (0.5%)</td>
<td>1:23</td>
<td>44%</td>
</tr>
<tr>
<td>Egypt</td>
<td>2,107 (0.3%)</td>
<td>1,058 (0.3%)</td>
<td>1:59</td>
<td>56%</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>2,096 (0.3%)</td>
<td>1,200 (0.4%)</td>
<td>1:44</td>
<td>53%</td>
</tr>
<tr>
<td>Germany</td>
<td>2,006 (0.3%)</td>
<td>1,042 (0.3%)</td>
<td>1:55</td>
<td>43%</td>
</tr>
<tr>
<td>Jamaica</td>
<td>2,002 (0.3%)</td>
<td>929 (0.3%)</td>
<td>2:09</td>
<td>60%</td>
</tr>
<tr>
<td>Colombia</td>
<td>2,000 (0.3%)</td>
<td>973 (0.3%)</td>
<td>2:03</td>
<td>46%</td>
</tr>
</tbody>
</table>
AAAS - Science Magazine: April 19, 2013
Grand Challenges in Science Education

- Use technology to improve pedagogy, management, and accountability.
- Improve access to, and the quality of pre- and postprimary education.
- Develop appropriate policies for regulating and supporting the private sector in education.
- Develop an understanding of how individual differences in brain development interact with formal education.
- Adapt learning pathways to individual needs.
  - Create online environments that use stored data from individual students to guide them to virtual experiments that are appropriate for their stage of understanding.
  - Determine the ideal balance between virtual and physical investigations for courses in different subject areas.
- Identify the skills and strategies that teachers need to implement a science curriculum featuring virtual and physical laboratories.
  - Identify the underlying mechanisms that make some teacher professional development (PD) programs more effective than others.
- Identify the kind of PD that will best prepare teachers to meet the challenges of the Next Generation Science Standards.
  - Harness new technologies and social media to make high-quality science PD available to all teachers.