

Hello everyone,

This week's 5 October 2019 Earth Science Sites of the Week feature the following resources:

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1) Editor's Picks: 1) Video Explains Frost Damage,\*\*2) Mapping American Diversity Block by Block Map, \*\*\*\*3) How the Indonesia Earthquake Made Soil Flow Like Water Video, \*\*\*\*\*4) Explore up to 10 Different Consumer Spending, Demographic, Lifestyle, and Behavioral Trends for your Community, 5) Answers Teaching Comic.

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### General

1. Convection Video

### Geosphere

1. Video Explains Frost Damage
2. Mapping American Diversity Block by Block Map
3. How the Indonesia Earthquake Made Soil Flow Like Water Video
4. Explore up to 10 Different Consumer Spending, Demographic, Lifestyle, and Behavioral Trends for your Community

### Humor

1. Answers Teaching Comic

### Water

1. Deep-sea Octopus Broods Eggs for over Four Years – longer than Any Known Animal

### Weather

1. Traveling to the Sun: Why Won't Parker Solar Probe Melt?
  2. Heatstroke Deaths of Children in Vehicles
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### General

<b>Name</b>	Convection Video
<b>Site URL</b>	<a href="https://www.youtube.com/watch?v=STCXuKtr9jQ&amp;feature=youtu.be">https://www.youtube.com/watch?v=STCXuKtr9jQ&amp;feature=youtu.be</a>
<b>Site Author</b>	Glenn Dolphin

<b>Suggested By</b>	Tom Gazda
<b>Description</b>	“Vegetable oil and Mylar confetti in a transparent glass pan is heated from below to create this example of convection.”

## Geosphere

<b>Name</b>	Video Explains Frost Damage
<b>Site URL</b>	<a href="https://www.youtube.com/watch?v=fkrrSys03qQ&amp;list=PLfp1hFsaJhKamaO1aDlzSBA92v6yQ5_t6">https://www.youtube.com/watch?v=fkrrSys03qQ&amp;list=PLfp1hFsaJhKamaO1aDlzSBA92v6yQ5_t6</a>
<b>Site Author</b>	NESTA-US
<b>Suggested By</b>	John-Henry Cottrell
<b>Description</b>	“Frost damage to pavement discusses many concepts: capillary action, expansion of materials, permeability of structures, engineering and science connection.”

<b>Name</b>	Mapping American Diversity Block by Block Map
<b>Site URL</b>	<a href="https://www.nationalgeographic.com/magazine/2018/10/diversity-race-ethnicity-united-states-america-interactive-map/">https://www.nationalgeographic.com/magazine/2018/10/diversity-race-ethnicity-united-states-america-interactive-map/</a>
<b>Site Author</b>	National Geographic
<b>Suggested By</b>	NESTA Twitter
<b>Description</b>	“Mapping American diversity reveals not just a snapshot of today but the imprint of two and a half centuries of migration, conflict, and prosperity.”

<b>Name</b>	How the Indonesia Earthquake Made Soil Flow Like Water Video
<b>Site URL</b>	<a href="https://www.nytimes.com/video/world/asia/100000006138189/indonesia-earthquake-damage-liquefaction.html?emc=eta1">https://www.nytimes.com/video/world/asia/100000006138189/indonesia-earthquake-damage-liquefaction.html?emc=eta1</a>
<b>Site Author</b>	Barbara Marcolini and Christoph Koettl
<b>Suggested By</b>	Michael Libbee
<b>Description</b>	“Entire neighborhoods have been devastated in and around Palu. Part of the damage is the effect of liquefaction, which causes soil to lose its ability to support structures.”

Name	Explore up to 10 Different Consumer Spending, Demographic, Lifestyle, and Behavioral Trends for your Community
Site URL	<a href="http://webapps-cdn.esri.com/Apps/location-strategy-for-business/#/insights?adumkts=branding&amp;aduc=print&amp;adum=interactive_pdf&amp;aduSF=url&amp;utm_Source=other&amp;aduca=m17the_arcgis_book_interactive_pdf&amp;aduco=rich_demographics_app&amp;adut=web-57&amp;aducp=smartcommunities">http://webapps-cdn.esri.com/Apps/location-strategy-for-business/#/insights?adumkts=branding&amp;aduc=print&amp;adum=interactive_pdf&amp;aduSF=url&amp;utm_Source=other&amp;aduca=m17the_arcgis_book_interactive_pdf&amp;aduco=rich_demographics_app&amp;adut=web-57&amp;aducp=smartcommunities</a>
Site Author	ESRI
Suggested By	Mark Francek
Description	Think you know everything about your neighborhood? Let's find out!  Enter a ZIP Code and pick some topics to see what the power of location can reveal about any place in the US. Explore up to 10 different consumer spending, demographic, lifestyle, and behavioral trends and tap into spatial analytics to see your neighborhood like never before.

## Humor

<b>Name</b>	Answers Teaching Comic
<b>Site URL</b>	<a href="https://pbs.twimg.com/media/DIYUDVGXoAAczKT.jpg:large">https://pbs.twimg.com/media/DIYUDVGXoAAczKT.jpg:large</a>
<b>Site Author</b>	wileyink@earthlink.net
<b>Suggested By</b>	NESTA Twitter
<b>Description</b>	Infographic showing the difference between simple and complex answers.

## Water

<b>Name</b>	Deep-sea Octopus Broods Eggs for over Four Years – longer than Any Known Animal
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<b>Site URL</b>	<a href="https://www.mbari.org/deep-sea-octopus-broods-eggs-for-over-four-years-longer-than-any-known-animal/?platform=hootsuite">https://www.mbari.org/deep-sea-octopus-broods-eggs-for-over-four-years-longer-than-any-known-animal/?platform=hootsuite</a>
<b>Site Author</b>	Monterey Bay Aquarium Research Institute
<b>Suggested By</b>	NESTA Twitter
<b>Description</b>	“Researchers at the Monterey Bay Aquarium Research Institute (MBARI) have observed a deep-sea octopus brooding its eggs for four and one half years—much longer than any other known animal. Throughout this time, the female kept the eggs clean and guarded them from predators. This amazing feat represents an evolutionary balancing act between the benefits to the young octopuses of having plenty of time to develop within their eggs, and their mother’s ability to survive for years with little or no food.”

## Weather

<b>Name</b>	Traveling to the Sun: Why Won’t Parker Solar Probe Melt?
<b>Site URL</b>	<a href="https://www.nasa.gov/feature/goddard/2018/traveling-to-the-sun-why-won-t-parker-solar-probe-melt">https://www.nasa.gov/feature/goddard/2018/traveling-to-the-sun-why-won-t-parker-solar-probe-melt</a>
<b>Site Author</b>	NASA – Susannah Darling
<b>Suggested By</b>	NESTA Twitter
<b>Description</b>	“NASA's Parker Solar Probe is heading to the Sun. Why won't the spacecraft melt? Thermal Protection System Engineer Betsy Congdon (Johns Hopkins APL) outlines why Parker can take the heat.”

<b>Name</b>	Heatstroke Deaths of Children in Vehicles
<b>Site URL</b>	<a href="https://www.noheatstroke.org/vehicle_heating.htm">https://www.noheatstroke.org/vehicle_heating.htm</a>
<b>Site Author</b>	Jan Null
<b>Suggested By</b>	NESTA Twitter
<b>Description</b>	A study was completed showing how fast the internal temperature of a car can heat up on a summer day.