

# **Rider Institute Online**

## **Earth and Space Science**

**Spring 2025 beginning January 8**

**Dr. Todd H. Rider, [thor@riderinstitute.org](mailto:thor@riderinstitute.org)**

**Website: [riderinstitute.org](http://riderinstitute.org)**



**This online course (for students in upper elementary through high school) covers a wide range of topics in Earth and Space Science. No prior knowledge is required. Supplementary readings and simple home experiments are recommended (but not required) each week.**

**The course is conducted via Google Meet on Wednesdays 8:00-9:00 p.m. Eastern (5:00-6:00 p.m. Pacific).**

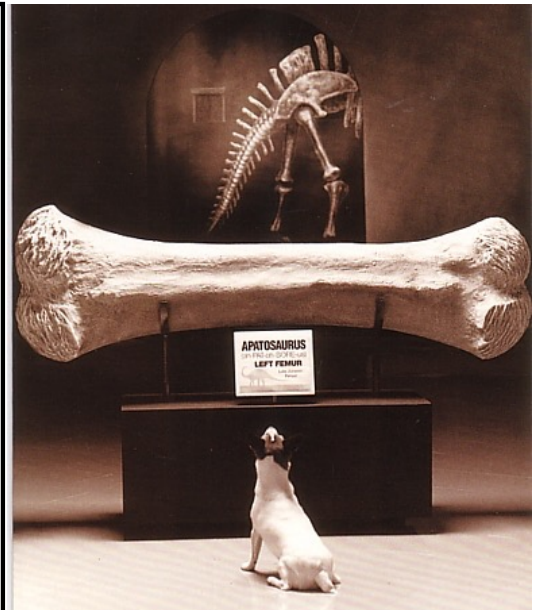
**You can pay for individual blocks of 8 weeks (see below) or \$368 per household for the entire spring course. To register, please pay in advance by credit card ([riderinstitute.org/donate](http://riderinstitute.org/donate)) or by check (made payable to “Rider Institute Inc.” and mailed to: **Todd Rider, 5 Green Needles Road, Littleton, MA 01460**) and also send an email ([thor@riderinstitute.org](mailto:thor@riderinstitute.org)). Payments are nonrefundable.**

### **Earth Science Part III (\$184 per household for 8 weeks)**

<b>Jan. 8</b>	<b>Precambrian era</b>
<b>Jan. 15</b>	<b>Paleozoic era</b>
<b>Jan. 22</b>	<b>Mesozoic era</b>
<b>Jan. 29</b>	<b>Cenozoic era</b>
<b>Feb. 5</b>	<b>Humans</b>
<b>Feb. 12</b>	<b>Oceans 1</b>
<b>Feb. 19</b>	<b>Oceans 2</b>
<b>Feb. 26</b>	<b>Pollution</b>

### **Earth Science Part IV (\$184 per household for 8 weeks)**

<b>Mar. 5</b>	<b>Atmosphere 1</b>
<b>Mar. 12</b>	<b>Atmosphere 2</b>
<b>Mar. 19</b>	<b>Weather</b>
<b>Mar. 26</b>	<b>Climate 1</b>
<b>Apr. 2</b>	<b>Climate 2</b>
<b>Apr. 9</b>	<b>Ecology 1</b>
<b>Apr. 16</b>	<b>Ecology 2</b>
<b>Apr. 23</b>	<b>Earth and space in the future</b>

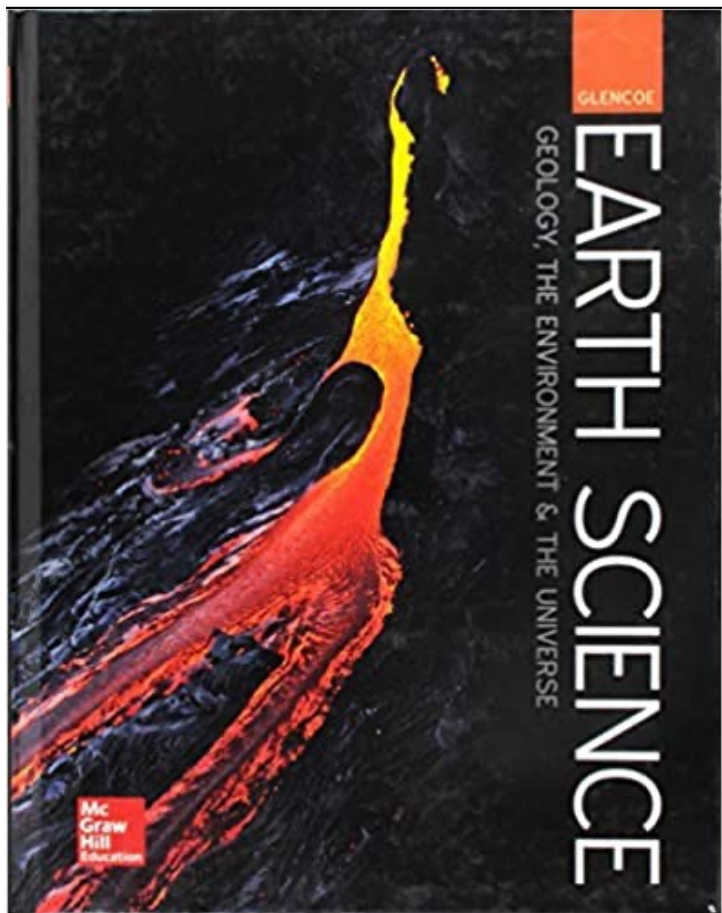


**Dr. Rider has over 30 years of experience in science education and research:**

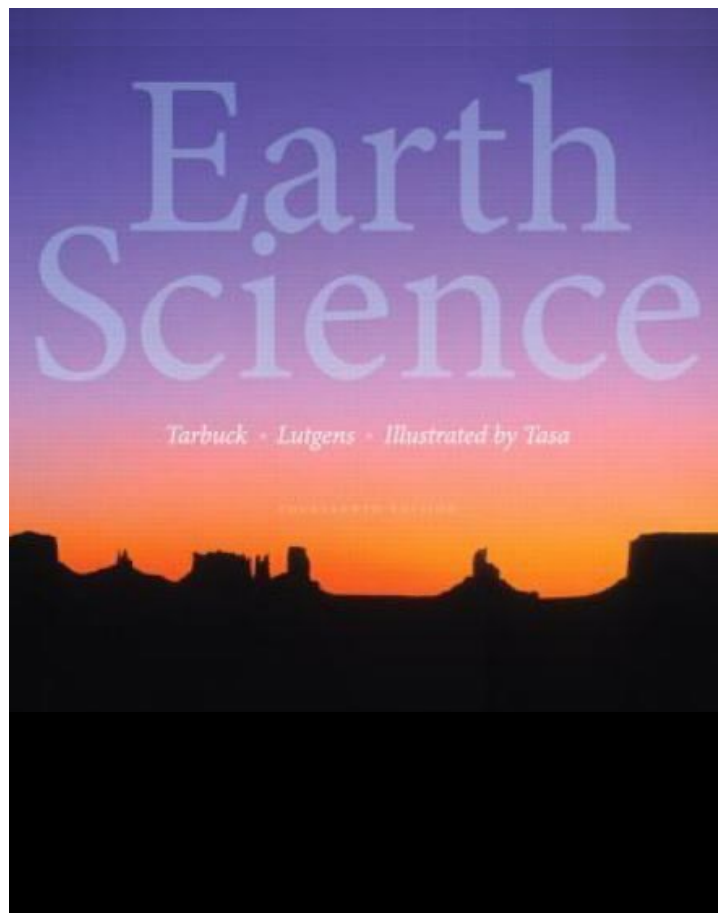
**[riderinstitute.org/education](http://riderinstitute.org/education)**

**[riderinstitute.org/about](http://riderinstitute.org/about)**

It is recommended (though not required) that students buy a textbook for supplementary readings during each week. Students can use **either** Glencoe *Earth Science* **or** Tarbuck & Lutgens *Earth Science*.



OR



For less advanced students

For more advanced students

New textbooks are insanely expensive, but more affordable used copies are available from reputable dealers at [amazon.com](http://amazon.com), [abebooks.com](http://abebooks.com), etc. You can also save money (without losing much scientific content) by buying an edition that is recent but not the very latest.

Don't pay for online access codes (those are just an expensive gimmick) and don't rent a book (a good printed textbook that you can keep is an invaluable resource that can be useful in later courses).

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## Recommended (but not required) home lab activities

Each week I will suggest simple lab activities that students can do at home with adult supervision, using common household items or supplies from online dealers. I especially recommend [www.homesciencetools.com](http://www.homesciencetools.com), which sells science kits and individual items.

See also:

[www.geod1.com](http://www.geod1.com)

[www.meteoritemarket.com](http://www.meteoritemarket.com)

[www.rocksandminerals.com](http://www.rocksandminerals.com)

[www.djminerals.com](http://www.djminerals.com)

[telescope.com](http://telescope.com)

[boneclones.com](http://boneclones.com)

[celestron.com](http://celestron.com)