

| K-5                          |                         |                |   |   |
|------------------------------|-------------------------|----------------|---|---|
| Science                      | Website / App           | Cost           | Resource  | What is it?   |
| Nearpod                      | <a href="#">Website</a> | Currently free | <a href="http://nearpod.com">http://nearpod.com</a>   | Interactive Lessons (self-pace or group)  |
| Mystery Science              | <a href="#">Website</a> | Free           | <a href="#">Link to free lessons easy to use</a>  | Easy, fun lessons for children  |
| PBS Learn Media for Science  | Website                 | Free           | <a href="https://www.pbslearningmedia.org/search/?q=*&amp;selected_facets=supplemental_curriculum_hierarchy_nodes:8337">https://www.pbslearningmedia.org/search/?q=*&amp;selected_facets=supplemental_curriculum_hierarchy_nodes:8337</a> | Science Lessons and resources from PBS Learn Media  |
| Skype a Scientist            | Website                 | Free           | <a href="https://www.skypeascientist.com/">https://www.skypeascientist.com/</a>   | Find scientists to Skype  |
| Citizen Science              | Website                 | Free           | <a href="#">Link to Resource</a>  | Easy ways to engage kids in science outside   |
| Cincinnati Zoo Live          | <a href="#">Website</a> | Free           | Facebook live videos, accessed through a Facebook page  | View live animals at the Zoo  |
| Crash Course Kids            |                         | Free           | <a href="#">Youtube videos</a>  | Science Videos for kids to engage in science  |
| PHET Simulations             |                         | Free           | <a href="#">Resource</a>  | Science simulations for several science ideas   |
| At Home Science Experiments  |                         | Free           | <a href="#">Resource</a>  | Fun experiments kids and parents can do at home   |
| Legends of Learning          |                         | Free           | <a href="#">Log in page</a>   | Game that can be played   |
| Bill Nye the Science Guy     |                         | Free           | <a href="#">You tube channel</a>  | Science Videos for kids to engage in science  |
| SID the Science Kid          |                         | Free           | <a href="#">Link to resource</a>  | Science videos and activities   |
| Easy At Home STEM Activities |                         | Free           | <a href="#">Link to Resources</a>   | STEM Activities that can be done at home with family  |
| Kitchen Science Experiments  |                         | Free           | <a href="#">Link to resource</a>  | Easy experiments that can be done in the kitchen with easy materials                                |
| Project Explore              |                         | Free           | <a href="#">Link to resource</a>  | Video lessons that can be done at home assigned through teacher or done with parent                 |
| Time for kids                |                         | Currently free |   |   |
| Michigan DNR Nature Lessons  |                         | Free           | <a href="#">Link to resource</a>  | Nature videos, lessons and activities that can be done at home to explore the nature all around us. |

| 6-12 Resources                          |         |                |   |   |
|---|---------|----------------|---|---|
| Nearpod                                 | Website | Currently Free | <a href="http://nearpod.com">http://nearpod.com</a>   | Interactive Lessons (self-pace or group   |
| PBS Learn Media for Science             | Website | Free           | <a href="https://www.pbslearningmedia.org/search/?q=*&amp;selected_facets=supplemental_curriculum_hierarchy_nodes:8337">https://www.pbslearningmedia.org/search/?q=*&amp;selected_facets=supplemental_curriculum_hierarchy_nodes:8337</a> | Science Lessons and resources from PBS Learn Media  |
| Outbreak Game                           | App     | Free           | <a href="https://itunes.apple.com/us/app/solve-the-outbreak/id592485067">https://itunes.apple.com/us/app/solve-the-outbreak/id592485067</a>   | Solve the Outbreak and learn how disease can spread   |
| Skype a Scientist                       | Website | Free           | <a href="https://www.skypeascientist.com/">https://www.skypeascientist.com/</a>   | Find scientists to Skype  |
| PHET Simulations                        |         | Free           | <a href="#">Resource</a>  | Science simulations for several science ideas   |
| Skype a Scientist                       | Website | Free           | <a href="https://www.skypeascientist.com/">https://www.skypeascientist.com/</a>   | Find scientists to Skype  |
| Phenomena for NGSS                      |         | Free           |   | Information and ideas to start discussion about COVID-19 with students                        |
| Bill Nye the Science Guy                |         | Free           | <a href="#">You tube channel</a>  | Science Videos for kids to engage in science  |
| Khan Academy                            |         | Free           | <a href="#">Website</a>   | Students can create their own account and course from several different science courses       |
| Interactive Sites for Educators         |         | Free           | <a href="#">Link to resource</a>  | Several different science topics that students can interact with                              |
| Bio: Learn.Genetics                     |         | Free           | <a href="#">Link to resource</a>  | Students can learn about genetics by following several different learning modules.            |
| Bio: HHMI BioInteractive                |         | Free           | <a href="#">Link to resource</a>  | Students can search information on a topic or teachers can share a specific piece of learning |
| Bio: iBiology                           |         | Free           | <a href="#">Link to resource</a>  | Students can search up and learn about topics in Biology                                      |
| Chem: Chem Matters Online               |         | Free           | <a href="#">Link to resource</a>  | Chemistry resources for educators and students  |
| Chem: Virtual Chemistry and Simulations |         | free           | <a href="#">link to resource</a>  | Virtual Chemistry Simulations   |
| Chem: Chemistry Now                     |         | free           | <a href="#">link to resource</a>  | 36-part video series  |
| Teach Engineering                       |         |                | <a href="#">link to resource</a>  | Engineering activities for students to do at home and also includes curriculum units          |

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|--|--|------|----------------------------------|--|
| Earth Science: Climate Change Courses        |  | free | <a href="#">link to resource</a> | Two climate change courses that students can take            |
| Earth Science: Virtual Atlas of Ancient Life |  | free | <a href="#">link to resource</a> | Virtual collections of fossils and old archaeological finds. |

**Resources that teachers can use with students to support learning. These resources should be resources that students have already been using with their teacher.**

|   |                                   |      |   |   |
|---|-----------------------------------|------|---|---|
| These resources require teachers to have set up class accounts. |                                   |      |   |   |
| WISE  | Website                           | Free | <a href="https://wise.berkeley.edu/">https://wise.berkeley.edu/</a>   | Web-based Science Inquiry   |
| Lab4U   | Smartphone                        | Free | <a href="http://lab4u.co/">http://lab4u.co/</a>   | Transform your Smartphone into a Science Lab                                      |
| Simulations   | Website                           | Free | <a href="https://interactives.ck12.org/simulations/physics.html?utm_source=EdsurgeTeachers&amp;utm_campaign=337b6bb790-Instruct+160&amp;utm_medium=email&amp;utm_term=0_3d103d3ffb-337b6bb790-291932485">https://interactives.ck12.org/simulations/physics.html?utm_source=EdsurgeTeachers&amp;utm_campaign=337b6bb790-Instruct+160&amp;utm_medium=email&amp;utm_term=0_3d103d3ffb-337b6bb790-291932485</a> | Physics and Chemistry Simulations   |
| Skype a Scientist   | Website                           | Free | <a href="https://www.skypeascientist.com/">https://www.skypeascientist.com/</a>   | Find scientists to Skype  |
| Journey North   |                                   | Free | <a href="#">Link to resource</a>  | Teacher can create an account. Students track migration                           |
| Google Science Notebook   |                                   | Free | <a href="#">Link to resource</a>  | A Google extension that students can use as a science notebook                    |
| Mi-STAR   | <a href="#">Website</a>           | Free |   | 6-8: Teachers must have log in and share resources with students                  |
| Newsela   |                                   | Free | <a href="#">Link to resource</a>  | Teacher can send articles to students about science topics                        |
| Data Nuggets  |                                   | Free | <a href="#">Link to resource</a>  | Data resources that students can answer questions about                           |
| The STEM Finder: Concord Consortium                             | <a href="#">Resources website</a> | Free | <a href="#">Link to resource</a>  | Interactive STEM activities for your classroom                                    |
| MIT Courseware  |                                   | Free | <a href="#">Link to resource</a>  | All different kinds of Science courses that educators can use with students       |
| NSTA  |                                   | Free | <a href="#">Link to resource</a>  | Tons of science resources for teachers including professional learning in science |
| Bio: BioEd Online   |                                   | Free | <a href="#">Link to resource</a>  | Bio resources that teachers can use with students                                 |

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|--|--|------|----------------------------------|--|
| Bio: The secrets of sequence                           |  | Free | <a href="#">Link to resource</a> | Video series of life sciences ways for teachers to incorporate new gene research into their teaching           |
| Bio: The Molecular Workbench                           |  | Free | <a href="#">Link to resource</a> | Interactive and visual simulations for teaching and learning about science                                     |
| Bio: National Association of Biology Teachers          |  |      | <a href="#">Link to resource</a> | Resources for teachers to use as well as some professional learning resources for teachers                     |
| Physics: Diagnoser                                     |  | Free | <a href="#">Link to resource</a> | Teacher needs to create log in for students. Sets of physics questions for students to interact with.          |
| Earth Science: Doing Geoscience the ways scientists do |  | Free | <a href="#">Link to resource</a> | Articles teachers can give students about how geoscience is done in the classroom.                             |
| Earth science: Big History Project                     |  | Free | <a href="#">Link to resource</a> | Teachers need to create account and students can engage in learning about the geological history of the earth. |
| Earth Science: American Museum of Natural History      |  | Free | <a href="#">Link to resource</a> | Curriculum resources   |
| Climate Literacy and Energy Awareness Network          |  | Free | <a href="#">Link to resource</a> | Guidance on teaching climate and energy  |
| Earth Science: Exploring Earth Online Course           |  | free | link to resource                 | Resource teachers can use to provide students with learning about Earth Science                                |
| Coding Resources                                       |  |      |                                  |  |
| Tynker   |  | Free | <a href="#">Link to resource</a> | Learn computer programming the easy and fun way!   |
| <a href="#">Code.org</a>                               |  | Free | <a href="#">Link to resource</a> | Learn to code and have fun!  |
| Article on how to incorporate computational            |  | Free | <a href="#">Article</a>          | Article with some great ideas about computational thinking!  |

|                                |         |      |                                  |                                      |
|--------------------------------|---------|------|----------------------------------|--------------------------------------|
| thinking into children's lives |         |      |                                  |                                      |
| CS FIRST                       | Website | Free | <a href="#">Resources</a>        | Computer Science Curriculum for Kids |
| Purple Mash                    |         | Free | <a href="#">Link to resource</a> | Code with creativity                 |

| Science Bloggers to Read to Get Lesson ideas                        |                      |  |  |  |
|---|----------------------|--|--|--|
| <a href="http://exploding sink.com/">http://exploding sink.com/</a> |                      |  |  |  |
| Science Podcasts  |                      |  |  |  |
|   | Lab Out Loud         |  |  |  |
|   | Real Scientists Nano |  |  |  |
|   | Radio Lab            |  |  |  |
|   | 60 second science    |  |  |  |
|   | Science Weekly       |  |  |  |