

NGSS Programs Description

TPS has created three NGSS K-8 STEAM programs. All programs were built from scratch by TPS teacher/writers and the amazing professors at CeMaST, Illinois State University, together with partners Really Good Stuff, Team Up, Nest Family and Digital Frog. Key authors include Dr. Brad Christensen, Dr. William Hunter, Dr. Ronald Smith, Kathy Turco, Orit Yefet, Nicola Boyd and Marion Lewis.

All content in all components was built based upon our team belief that students, and all humans, **LEARN BY DOING and that STEAM curricula is inclusive.**

TPS stands for Teachers, Parents, Students; a formidable and powerful trio.

TPS wish to thank you for taking time to review our science programs and we hope to work with you soon. TPS believe the content will enable all students to understand the world around us, understand phenomenon, and protect the environment, for themselves and future generations. Of course, we want students to pass an assessment test, but more importantly to comprehend how best to live in this world and protect it.

You will discover that each program was built for the student, and follows the 5E instructional model, and DAPIC process and incorporates nasen researched strategies for our students with learning disabilities, and for ELL/ELD students. However, when writing the program, from scratch, our teachers and professors from CeMaST, Illinois State University, took great care when considering the needs of teachers and parents/guardians, knowing that it is the teacher who is best suited to know what each student needs to learn, and parents/guardians that support their children at home and know their child best.

TPS is a teacher/writer organization so we do not have a sales force, you will be speaking with teacher authors and our team support you throughout each school year. Our team firmly believe that cross curricula teaching is best as our lives are not by subject compartments, and education should follow real-life.

When students cannot read or write English, they are already at a disadvantage, so tools are provided to help them progress more quickly. A child with learning disabilities will be inspired by being able to complete the STEM and Arts projects which are inclusive.

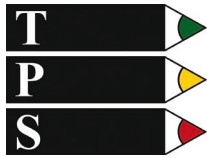
TPS is passionate about the environment and we have sent our digital access codes to you to save trees. I am a non-technical person, and the thought of using digital access only made me tremble. However, I was the guinea pig and I must emphasize that using the digital offering is easy and even I can do it. Therefore, I am personally confident there will be no issue for your review. A full program description document is available if you wish to see it. However, below is a summary of each program which should assist you in making your choice.

The first choice is do you want to use a Preferred Integrated course or **By Discipline**. If your choice is **By Discipline** you need to review **Creative Science K-8**.

If your choice is **Preferred Integrated**, then you have two choices, **STEAM Exploration** and **STEAM into NGSS**. What if you cannot decide in your district or school or home? Well, perhaps STEAM Exploration would be best as you get the integrated program in print (STEM Project Guides and Combined Textbooks for K-5, and STEM project guides in print for middle school with digital Combined Textbooks, integrated and Topical in digital format.

STEAM Explorations -Option 1 – Preferred Integrated K-8 program – (STEM focus in middle school)

Students practice science through processes used by scientists and engineers



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Each segment begins with an assessment, a vignette and has an anchoring phenomena-based STEM project

- Taps into, develops and refines students' innate inclinations to look for patterns and cause-and-effect relationships
- Provides teachers with the information they need to confidently guide students
- Students are invited to explore concepts by making observations of natural phenomena and by developing simple models of systems or phenomena that can be used to test their ideas
- Teachers circulate among student groups listening to conversations to assess understanding, asking probing questions and offering assistance primarily in the form of guiding questions to facilitate authentic "aha moments" in which students achieve true understanding.
- Teachers lead students in processing new information to create knowledge and to make connections among different concepts

There is a high STEM project focus in middle school grades in this program. The STEM project guide content is focused upon and the content in the combined textbooks is secondary.

We still make available and propose that you use vignettes, STEM and Arts projects, Natural Science lesson plans, but STEM is the key focus. The program is underpinned with a strategy of teaching science, literacy, math and arts and history at the same time. You will find, for each chapter, a Word Wall themed activity reader book section, Amelia Rose cross curricula family section and key science words appear in these sections. Science glossary cards are provided showing the history of the word and syllables break down.

A themed reader activity book is provided for each grade.

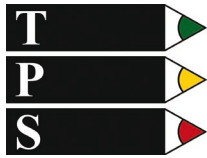
Within this program, we provide digital access to our topical combined textbooks for reteach or for teachers and parents who perhaps do not wish to leap into an integrated program but reside in a district that has chosen preferred integrated.

Option 2 is STEAM into NGSS K-8 -Preferred Integrated K-8 Program – (Equal focus for Combined textbook content and STEM in middle school)

The program content for the expository text in The Science was written by a different author K-5 than for STEAM Exploration. This program also has vignettes, STEM and Arts projects, Natural Science lesson plans, Word Wall, Amelia Rose, and themed reader activity books but the pacing is more balanced between the components.

Option 3 is Creative Science K-8 -By Discipline -a gentle approach to NGSS

The program content is built to follow the performance expectations throughout the school year. TPS does use the STEM projects to introduce by discipline teachers gently into the world of NGSS. However, the focus is on the combined textbook content. This program does not have vignettes. It has more Science Is A Verb, fifty-minute labs than the other programs. This component was created by professors to ensure that teachers who are nervous of science can deliver the NGSS content, with confidence. The traditional lessons and investigations are extensive.



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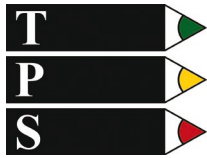
Common Features for all programs:

All three programs have arts projects, aligned to California State Standards for Visual and Performing Arts, and nasen approved libraries with projects for children with learning disabilities. Parent guides are included explaining the shift into NGSS and providing samples of TPS content. One project is proposed to open school each year; Muscle Karts; a truly innovative K-12 NGSS and Common Core Math aligned full school project to inspire students to want to learn.

TPS is providing materials for after school clubs, specialist tools to suit student's needs and a vast amount of data and photographs to use as you will or for which we have provided tips in the combined textbooks.

Here are some of the key libraries. Note that assessments, visual and tactile appear in the combined textbooks in each component area and in all STEM and arts projects. The assessment tools noted below are those we use daily and for test preparation.

1. Interactive Assessment Tool – interactive and by PE and including 4-point rubrics
2. Focus tutorial – textbook content created in a visual format for RTI students
3. Assessment Generator – by PE and level of student skill
4. Safety and Reasoning Library housing student and teacher journals which include problem solving and safety, together with a focus on recycling materials in school
5. CCD – photographs, data/case studies and fact sheets are housed in this library together with an Information and Support area. Photographs are provided for all seven cross cutting sections and are themed. Advice for how to use them appears in the teacher combined textbook but you can also set your own assignments using the photographs. Data has been researched and then provided for key science topics such as Earthquakes; Sunset and Sunrise times; Organ Donation. Links are provided to copyrighted websites with interesting case studies and those that were copyright free are provided in PDF format with full credit/citations to the owner. Fact sheets include information for many scientists from all walks of life, plants, animals.
6. STEAM -Science/ELA/Math - includes nasen approved projects for special education, arts projects for afterschool; STEM Math focused projects to help improve math skills (TPS is an adopted K-8 Mathematics supplier in California); Critical Thinking in Science and Olympic exercises
7. Advanced and Gifted library -includes **iMaST** STEM learning cycles x 200, built by **CeMaST, Illinois State University** and advanced SMILE – a series of advanced science experiments with matching math, science and ELA assessments including self-assessment
8. Reteach Library – housing SMILE – a series of below and at grade science experiments with matching math, science and ELA assessments including self-assessment
9. **NEST Family** movies – wonderful cartoons about famous scientists, Presidents, inventors and explorers
10. **ALASKA suite** – DVD, CD, Textbook and workbook including content about living organisms in Alaska which are made available so that students make comparisons about their local area to the rest of California and to this wonderful contrasting State



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11. **Digital Frog** – award winning environmental software tool which is not only about digital dissection and comparison of human to frog cells but also includes tours of varied ecosystems
12. **Team Up** – a great way to have students improve their math skills – a board game aligned to Common Core State Standards for Mathematics
13. **Really Good Stuff Kits** – excellent support for ELL students; banded grade kits (K-2, 3-5, 6-8) with specialist tools for improving ELA skills; some products available in Spanish
14. **Archway** – a full phonics program in a small book with a DVD and sets of researched based cards which is included for families to use who speak no English or can be used in classrooms where one mentor is assigned to one or small groups of students
15. TPS offers full school year 24-hour helpline support, summer training and workshops for teachers and parents.
16. **TPS also provide materials kits** at varying levels to suit each district. There are four kit levels available: **Economy; Base; Base +; Deluxe**. TPS will also build bespoke kits where economically viable.
17. STEAM professional development can be booked, at an additional cost, for your whole staff. The Summer training day we provide is within the cost of the per student pricing. Additional training is chargeable and the workshops available appear in the Information and Support area within the CCD.

Formats Available:

Print – Color, Black and white

Digital – with print or without print license, 1yr or multiple years

Covers – Hard, Soft

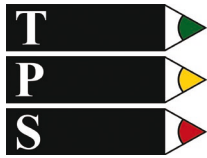
Journals with the write on pages are available for future years so whichever first year format you choose, these can be ordered annually.

Prices are provided in personalized quotes.

Attached are the temporary access codes which will be valid for 45 days. If you require a longer review time, please contact Ian Wright at ian@tspublishing.com

A tip; copy and paste in the details rather than typing them as they are case sensitive.

If you have further interest then please write to me at maz@tspublishing.com or if you have decided to order, email Andrew Norris at andy@tspublishing.com and he can provide you with a personalized quotation.



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Temporary 45-day digital key information to TPS NGSS Programs:

Go to www.tpspublishing.com/my-resources

When prompted, enter User name and password below to access appropriate program for review.

Accept terms, and the initial menu will display, from which all components can be accessed.

STEAM Exploration

User – NGSSGXP2

Password – ngssgxp2?

STEAM into NGSS

User – NGSSGIN2

Password – ngssgin2?

Creative Science

User – NGSSGCS2

Password – ngssgcs2?