

# STEM Lesson Checklist



**Quick Build Activities**



**Engineering Design Challenges**



**Long-Term Design Projects**

## What Stage is your STEM Challenge?

# THANK YOU!

Thank you for downloading a Vivify product! If you have any questions, please email us at [info@vivifystem.com](mailto:info@vivifystem.com).

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## ABOUT VIVIFY

Vivify is a team comprised of two Aerospace Engineer friends, Natasha and Claire, who live in Texas. We met as college classmates and roommates at Texas A&M University and later left engineering careers in the Department of Defense and Air Tractor to pursue our passion for STEM education. Learn more of our story [here](#).

Our goal is to bring engineering to life—to vivify learning—for kids of all ages. Please connect with us so we can learn how to better serve your students!

- Natasha & Claire, The Vivify Team



## Connect with us for free STEM resources!

Subscribe to our newsletter and receive access to a library of free STEM resources through [www.vivifystem.com](http://www.vivifystem.com). Follow us on social media or listen to “The STEM Space” podcast for more resources and ideas. We also welcome you to join [“The STEM Space”](#) Facebook group to connect with other educators across the world.



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# Identify your STEM Strength

## What stage is your STEM Challenge?



### Quick Build Activities

- |   |   |
|---|---|
| <input type="checkbox"/> Identify Constraints | <input type="checkbox"/> Teamwork               |
| <input type="checkbox"/> Problem Solve        | <input type="checkbox"/> Creativity             |
| <input type="checkbox"/> Communicate          | <input type="checkbox"/> Building               |
| <input type="checkbox"/> Persistence          | <input type="checkbox"/> STEM Career Connection |



### Engineering Design Challenges

- |  |  |
|--|--|
| <input type="checkbox"/> All of Stage 1    | <input type="checkbox"/> Collect Data        |
| <input type="checkbox"/> Plan Before Build | <input type="checkbox"/> Apply Science       |
| <input type="checkbox"/> Test to Improve   | <input type="checkbox"/> Real-World Scenario |
| <input type="checkbox"/> Use Technology    | <input type="checkbox"/> Reflect to learn    |

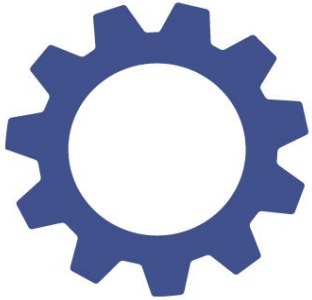


### Long-Term Design Projects

- |  |   |
|--|---|
| <input type="checkbox"/> All of Stage 2    | <input type="checkbox"/> Research Solutions               |
| <input type="checkbox"/> Open-Ended        | <input type="checkbox"/> Connect with a STEM Professional |
| <input type="checkbox"/> Long Term Project | <input type="checkbox"/> Present Results                  |

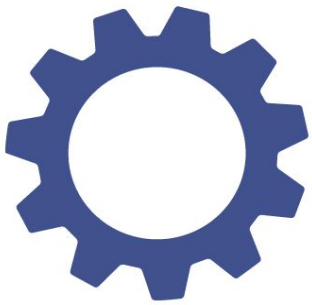
# Identify your STEM Strength

## *What stage is your STEM Challenge?*



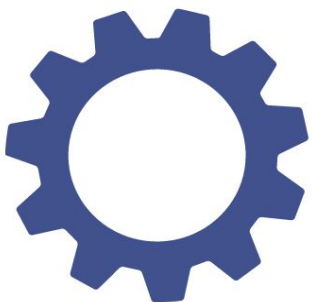
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# WANT MORE STEM?

For a complete list of all of Vivify STEM resources broken down by standards, topics, and grade levels, go here: <http://bit.ly/VivifyResourceGuide>



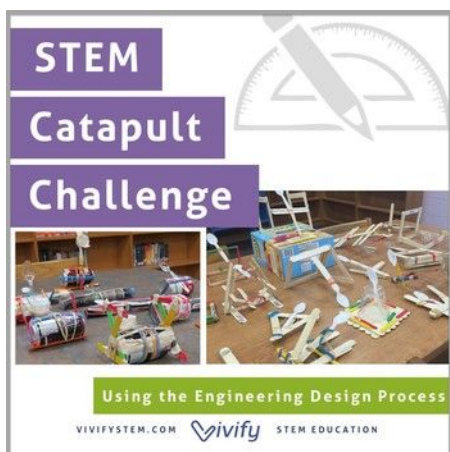
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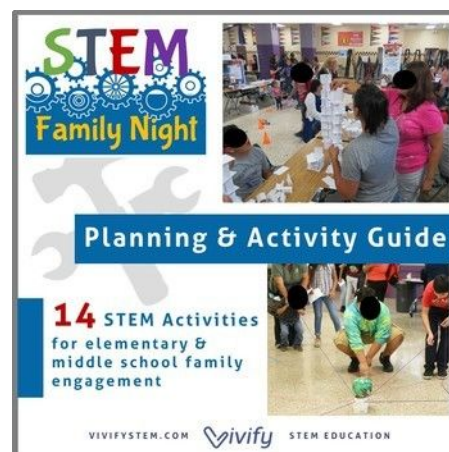
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## Vivify's Overview of STEM Education

Successful STEM education is an empowering interdisciplinary approach that brings math and science concepts to life through problems that mimic the complexities and excitement of the real world. STEM revolves around the Engineering Design Process that embraces failure, relies on teamwork, and requires critical thinking and creativity. While exciting, educators often become intimidated as a search for curriculum leads to an overwhelming range of activities from index towers to robotics competitions. At Vivify, we believe that not all STEM is created equal. Educators should adopt a [3 Stages of STEM](#) approach by progressively building towards more complex projects.

To learn more about the 3 Stages of STEM, go here: <http://bit.ly/stemstages>