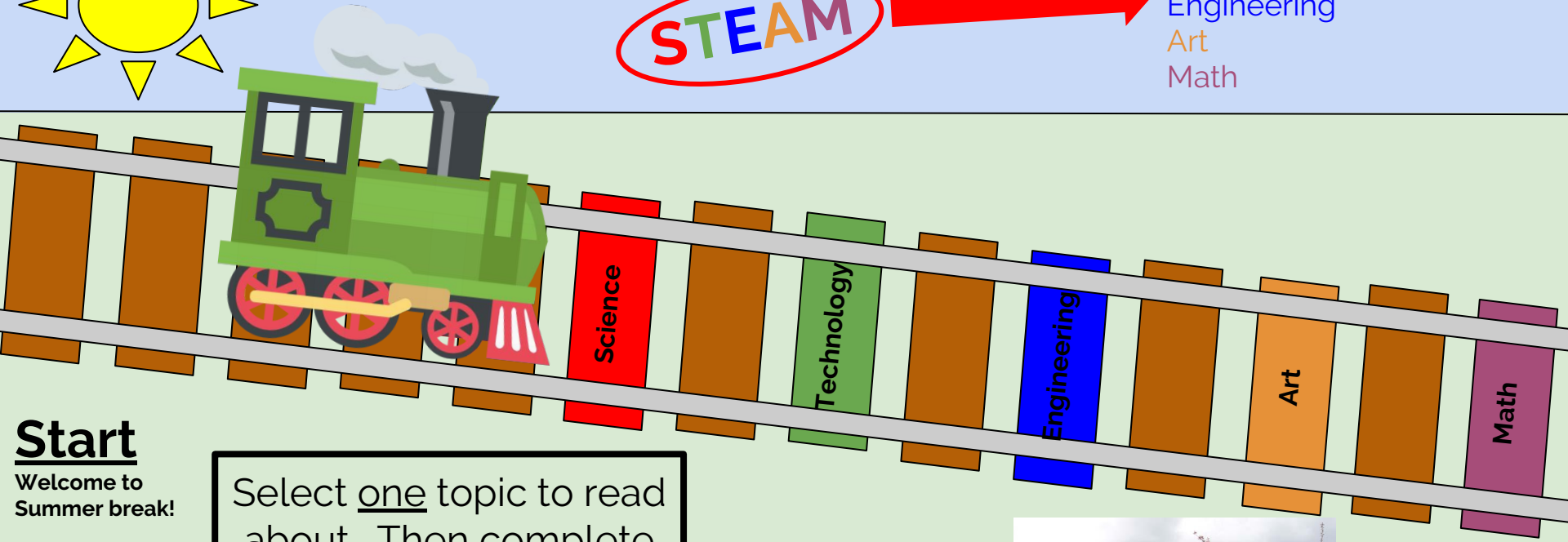
# Summer of STEAM

Science
Technology
Engineering
Art
Math



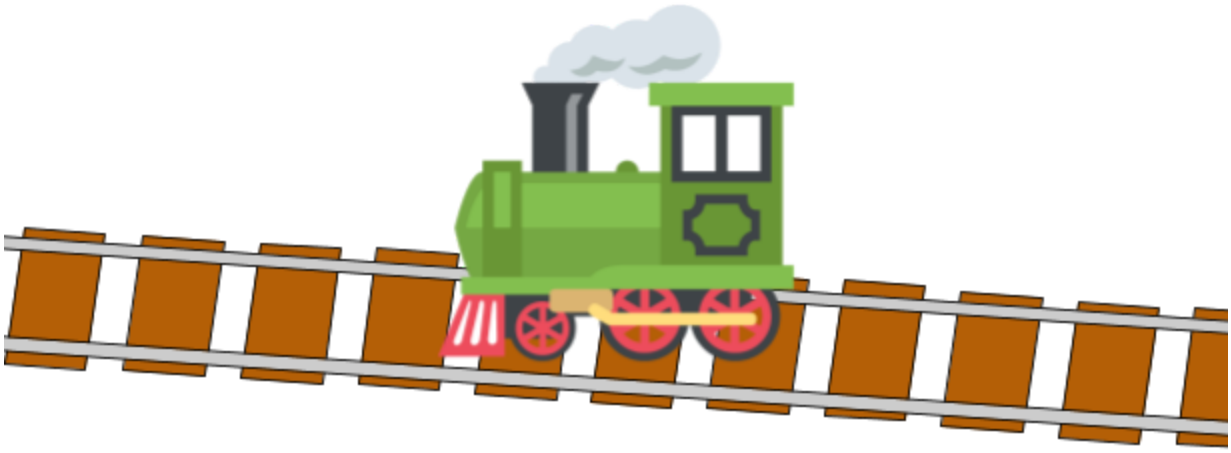

## Start

**Welcome to Summer break!**

Select <u>one</u> topic to read about. Then complete a project to show what you learned.


## Finish

**Welcome back to Cambridge!**

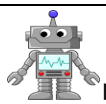


# Summer of STEAM 2018

## Reading Challenge Directions:

To participate in the Summer of STEAM Reading Challenge, select at least one reading activity from the choice board that you are curious about. Enjoy reading and completing an activity (suggested or your own idea) connected to your interest. Deliver your completed projects to the library by September 14, 2018. If your project is digital, please share it with Mrs. Ravichandran (chitra.ravichandran@sbschools.org) by September 14, 2018. A celebration will take place in the fall for students who complete the Summer of STEAM Reading Challenge! Stay curious and have fun!

# Summer of Steam Choice Board

| | | |
|---|---|---|
| Do you have a bird feeder that the squirrels are always getting into? Have you ever tried to figure out how to stop them from eating the bird's treats? Find a book, article or website on how to keep those pesky squirrels from stealing the bird food. Design your own device that keeps those squirrels out.<br>  |  Consider how many different types of rocks there are. Find a book, article or website to read about the many types of rocks and the rock cycle.<br>Collect rocks!<br>Create a rock collection log. Draw a picture of the rocks and try to identify the types of rocks you have. | Have you ever wondered what makes things fly? Find a book, article or website to read about things that fly (airplanes, birds, hot air balloons, butterflies ...).<br>Draw and build your own flying object.  |
| Think about what it takes to build a fort? Find a book or article on how to build a fort. Build a fort and take a picture of it. Create a how to book to explain to others how to build their own!<br>  | Pick your own topic, read about it, then create your own<br>POWER OF STEAM<br>ART +science -PROGRESS<br>project! | Have you ever noticed that your heart rate changes with the activities you do? Read about the heart and learn how to measure your resting heart rate.<br>Collect data on your heart rate at different points in the day to learn how quiet versus physically active tasks change the heart rate. Check out this site:<br>  |
| Have you ever considered what to do with junk around your house? Find a book, article or website on how to reuse household items and make them into something new.<br>  | Consider how many different ways paper airplanes can be made. Read an article or book on making paper airplanes. Design 3 models of paper airplanes. Make and test your designs. Measure how far each one flew and log in the measurements.<br>  | Have you ever thought about how many bugs live in your neighborhood?<br>Read a book on types of bugs. Go on a bug hunt in your neighborhood and see what types of bugs you can find. Draw a picture of at least three that you found.<br>  |
|  Do you wonder how engineers build robots? Read a book, article or investigate a website about building Robots.<br>Build your own robot out of materials that you can find around the house. Make sure you make a sketch of what your robot is supposed to look like beforehand. |  Have you ever considered how much rain falls during one rainstorm? How about reading a book, article or website about making a rain gauge.<br>Build a rain catcher and measure the rain over a week. Keep a rain log and add rain amounts. | Why is the grass green? Why is the sky blue? Have you ever asked these questions before? Read a book, article or website that answers the many why questions of nature.<br>Create a diorama out of a box that labels a nature scene and has fact labels explaining these questions.<br>  |