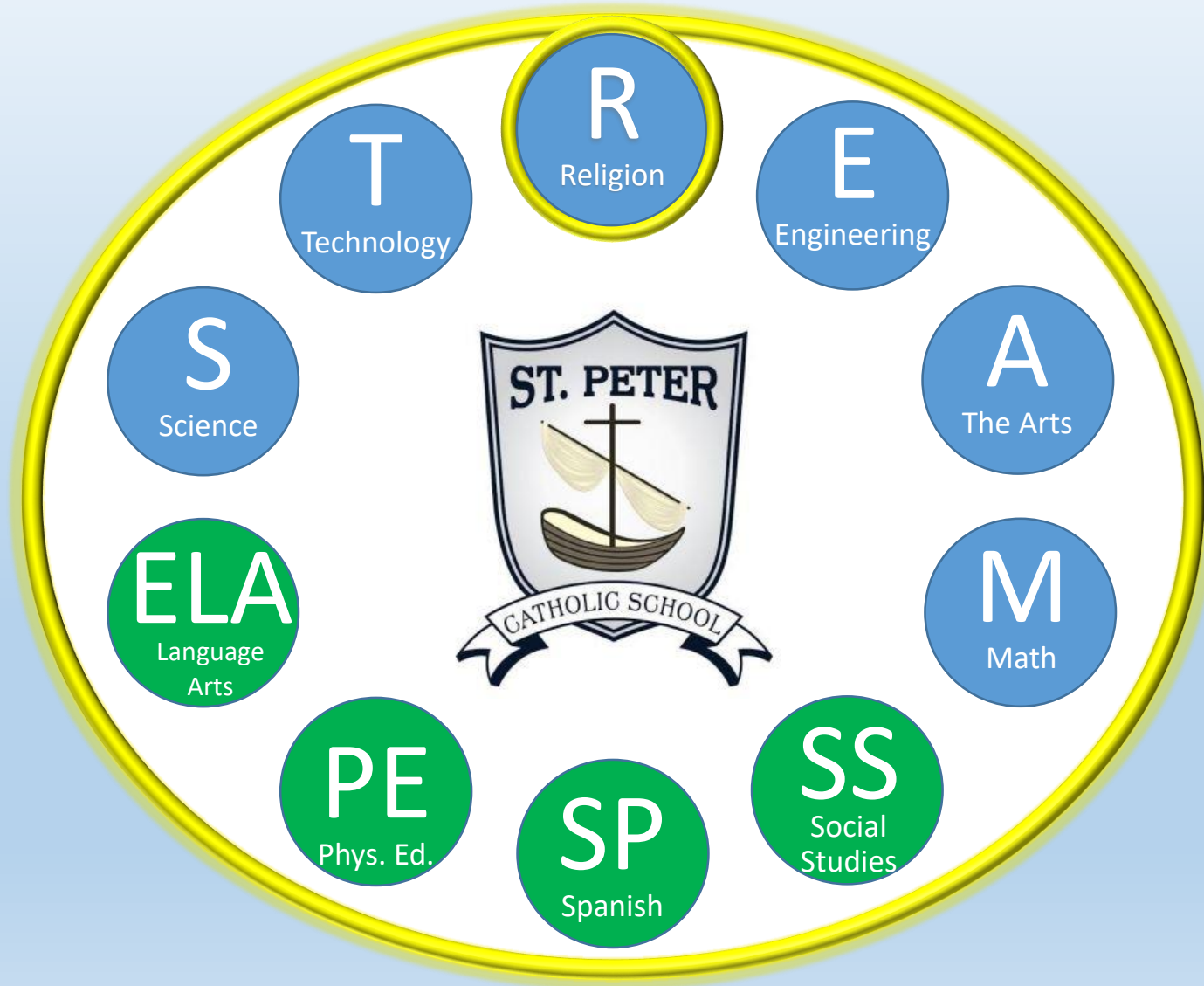
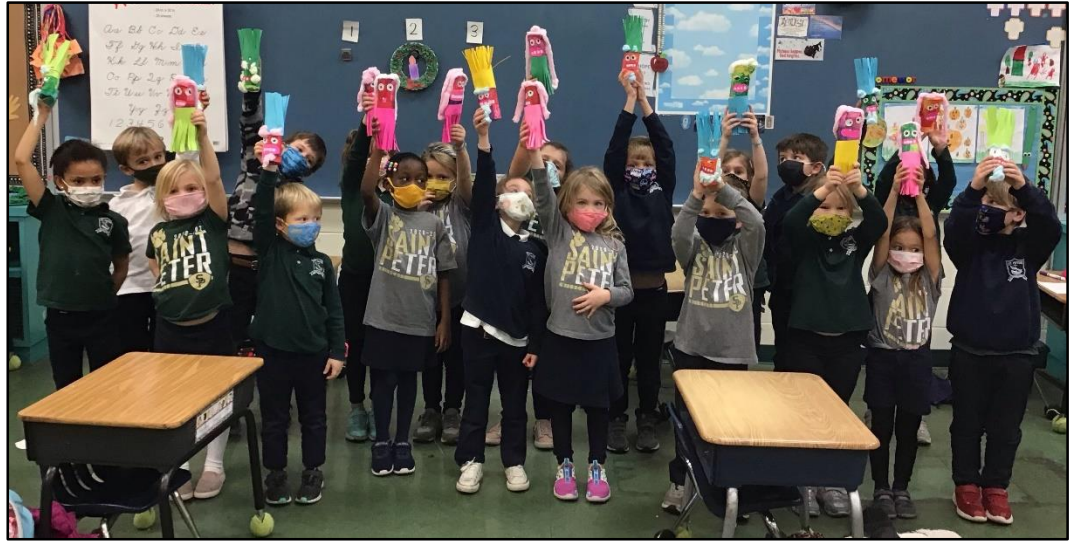


Saint Peter Catholic School Integrated STREAM Program



Kindergarten Art *Paper Maracas*



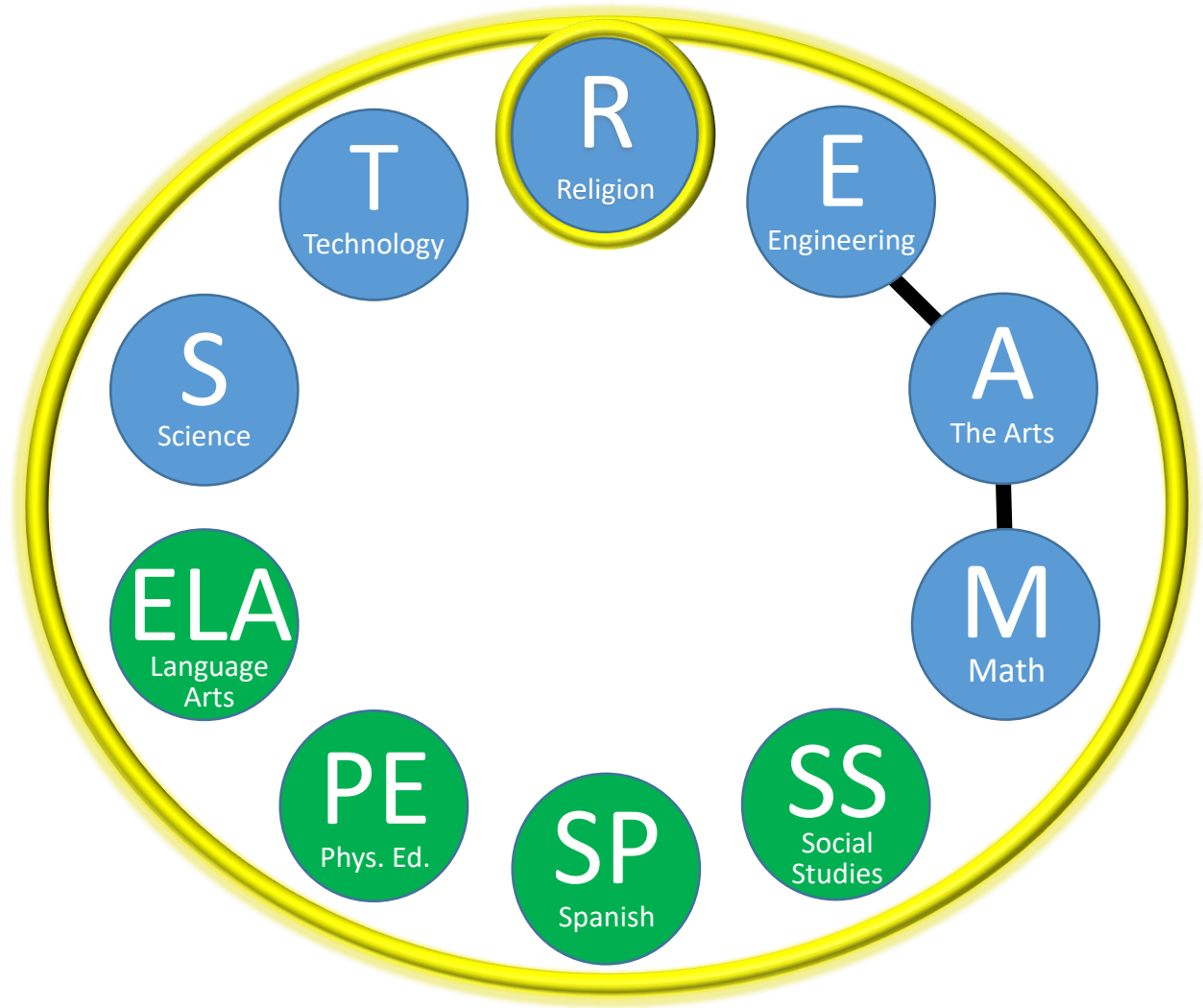
Students internalize the concept of the cylinder by making one with paper and tape. It serves as the body of these geometry-based sculptures.



Kindergarten Art

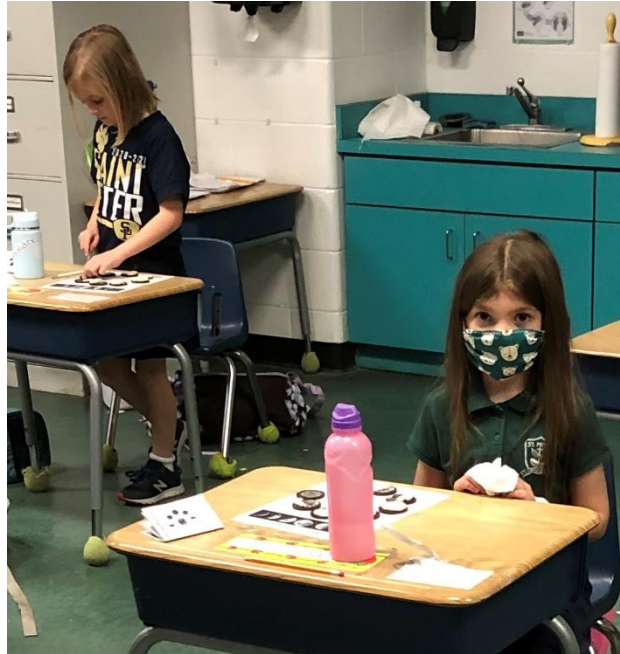
Paper Maracas

Creating the paper end caps of the cylinders so corn won't fall out is a structural engineering challenge.



1st Grade Science

Moon Phase Cookies



2nd Grade Social Studies

Landforms Re-creation

In our landforms unit, we learned about many types of landforms, what each landform looks like, and where those landforms may be located on Earth.

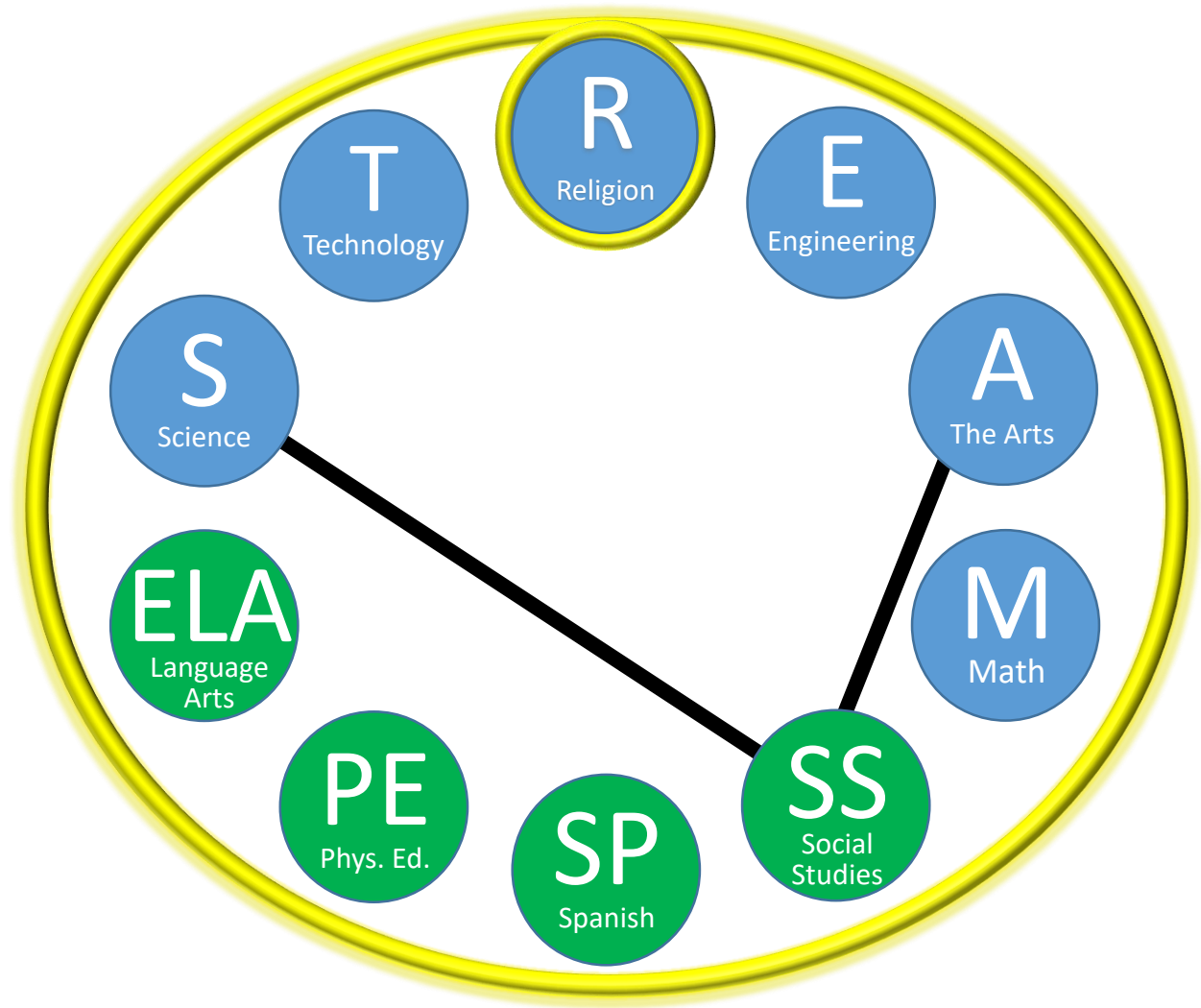
Then, we used playdough as an assessment tool in which the kids were asked to recreate each landform. Catherine shows how a river leads into the ocean. Ella shows a volcano with lava and ash overflowing. Kate B. shows an island surrounded by water on all sides.



2nd Grade Social Studies

Landforms Re-creation

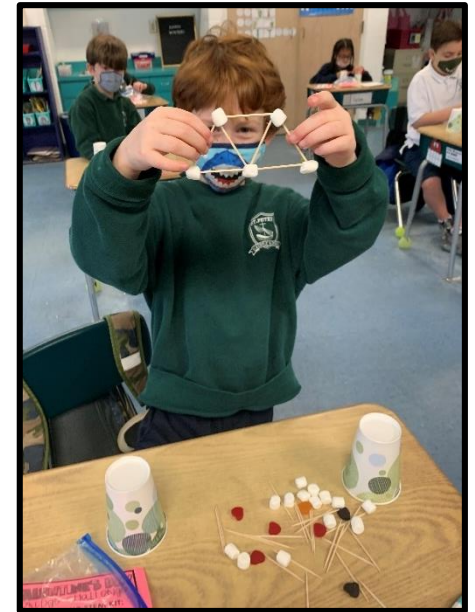
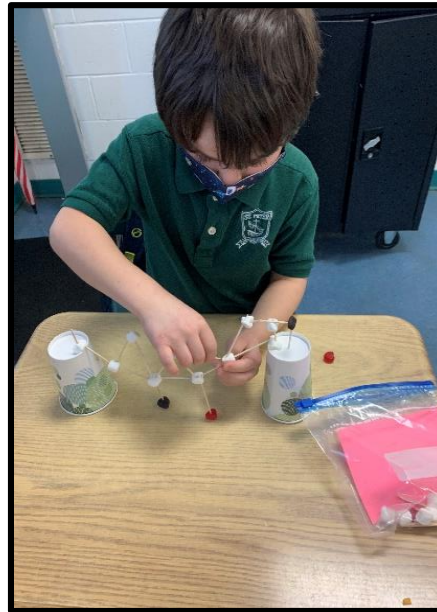
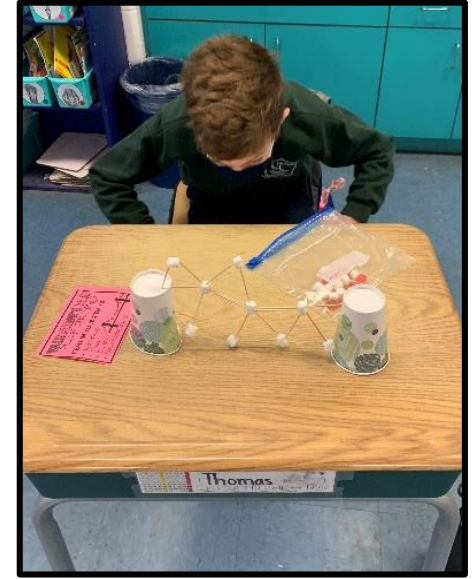
This project combines social studies (as they learned about landforms) and the arts (as they molded playdough into each landform).



2nd Grade Math/Engineering *Valentine's Bridge Building*

We discussed and learned about different bridges, like the truss bridge, suspension bridge, and the beam bridge. We found that one of the strongest structures engineers use for bridges is the triangle.

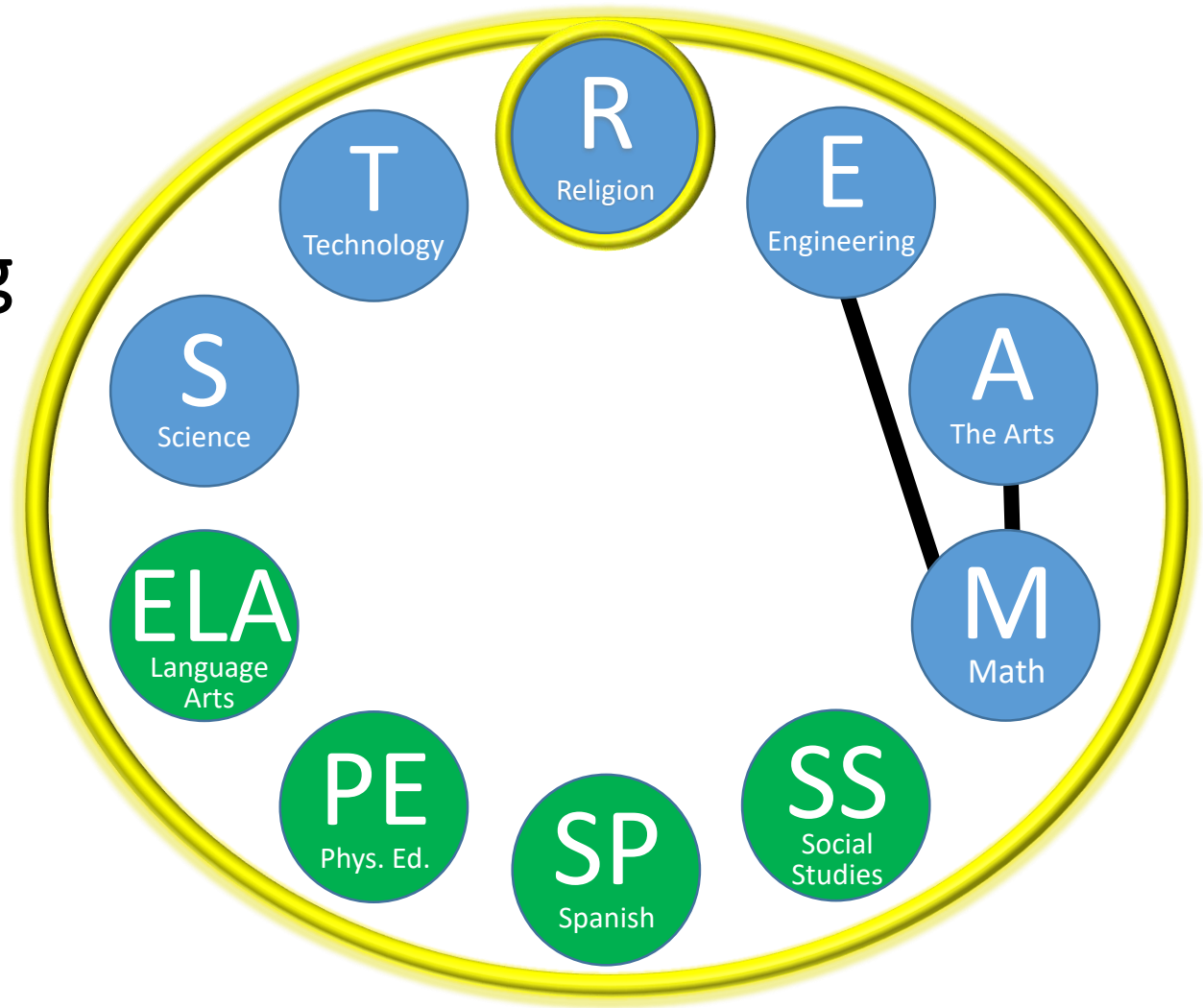
Students used marshmallows, toothpicks, and paper cups to apply what we learned to building their own bridges from cup to cup. We then used a ruler to measure in inches how long each of their bridges were.



2nd Grade Math/Engineering

Valentine's Bridge Building

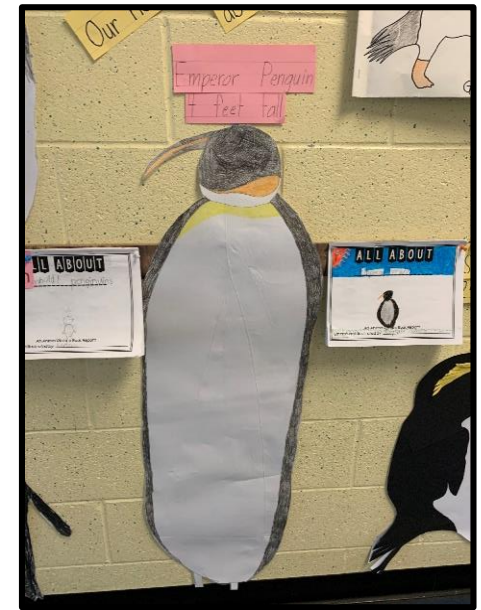
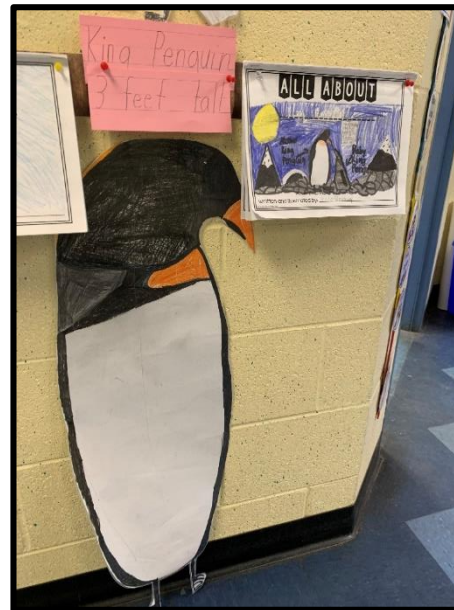
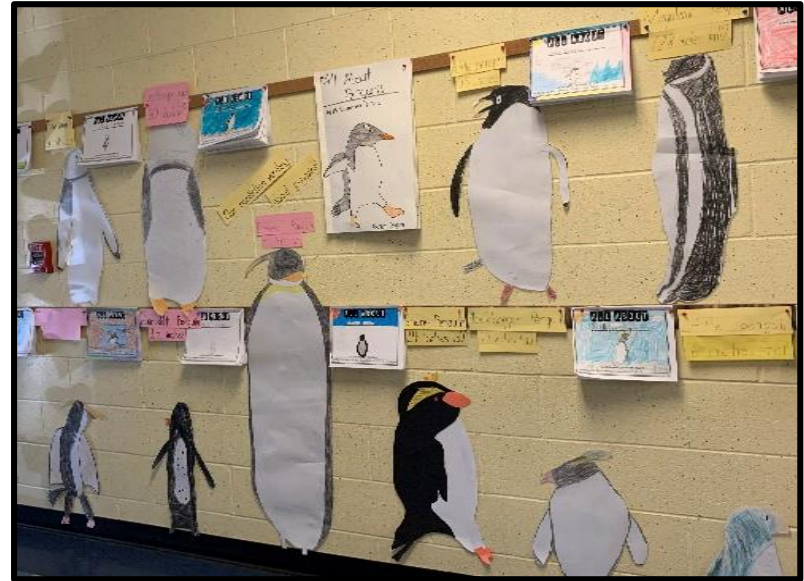
This project combines engineering (learning about building bridges) and math (building triangles out of toothpicks and measuring with rulers).



2nd Grade Writing/Reading

Nonfiction Penguin Writing

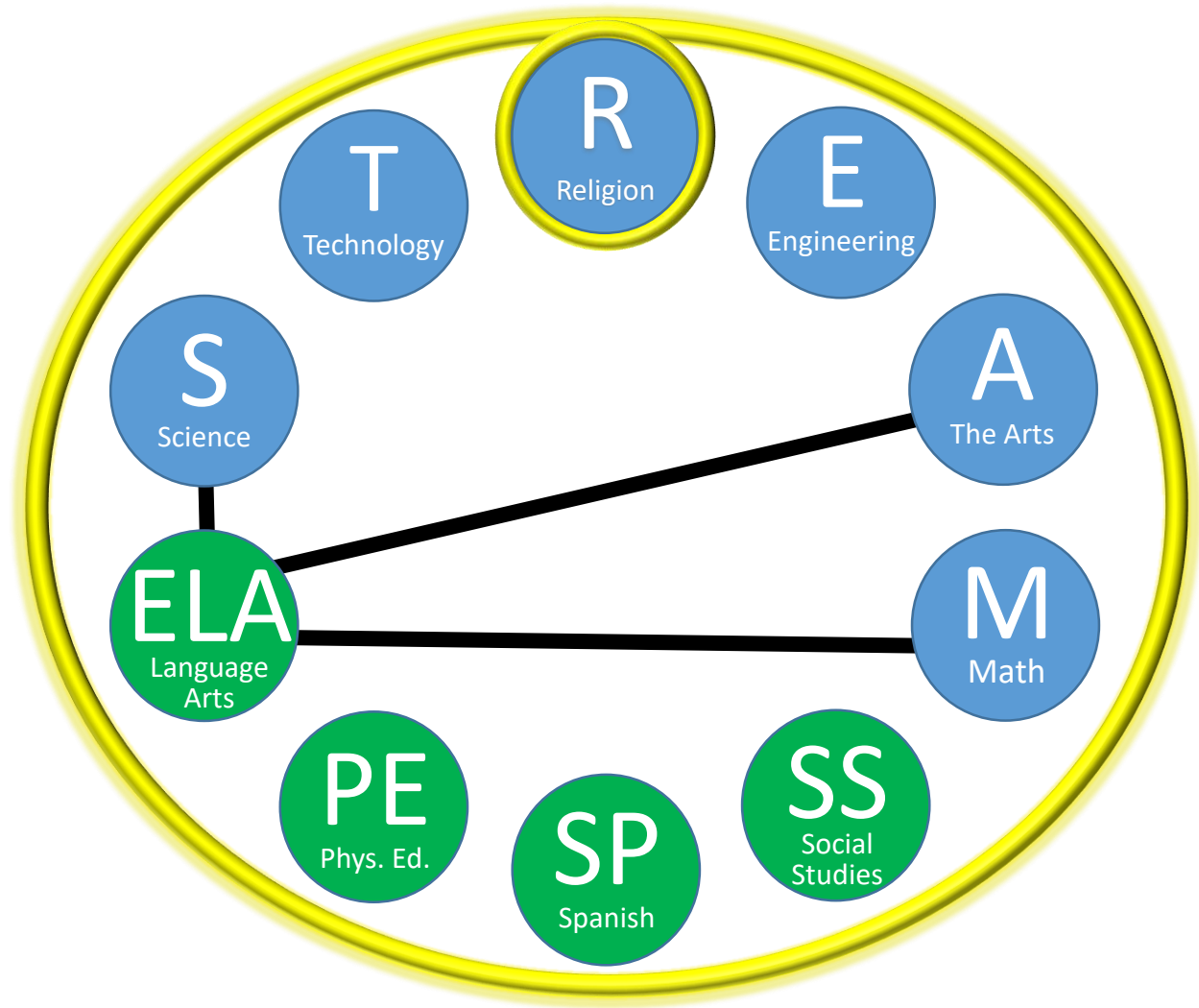
We completed our nonfiction unit by researching and writing about the different types of penguins. When finished, we used rulers to measure and create life-sized versions of our penguins.



2nd Grade Writing/Reading

Nonfiction Penguin Writing

This combines nonfiction writing/reading, math (measuring in inches/feet), and the arts (applying what we have learned our penguin looks like and recreating it with paper/crayons).



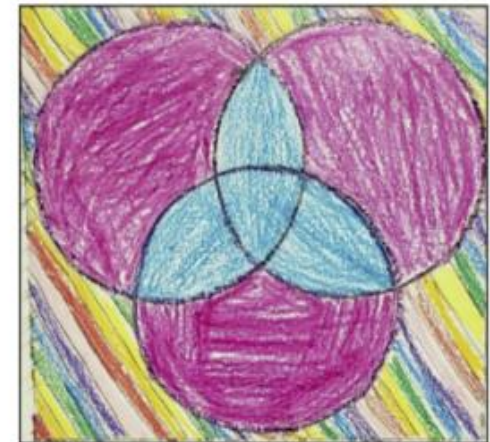
2nd-4th Grade Religion *Celtic Art and The Holy Trinity*



Ellie Grace G.



Jatin P.

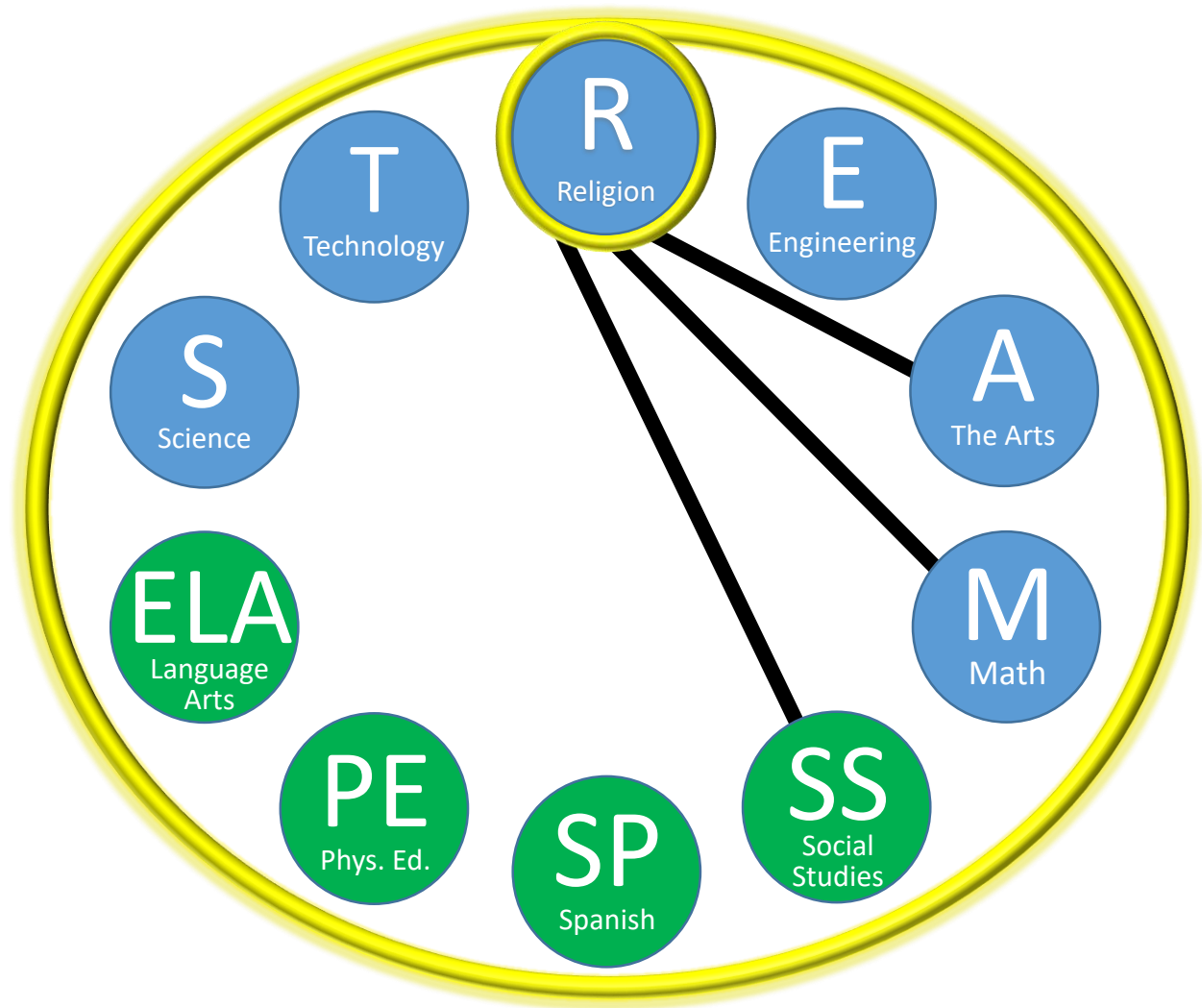


Madilyn D.

2nd-4th Grade Religion

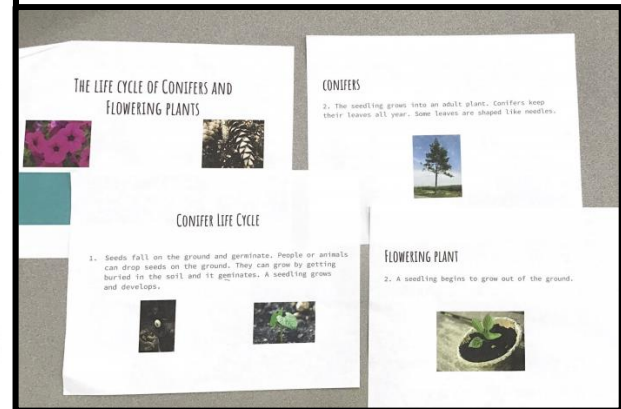
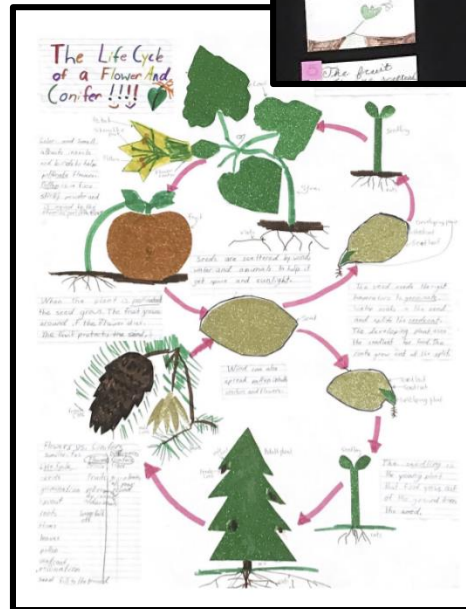
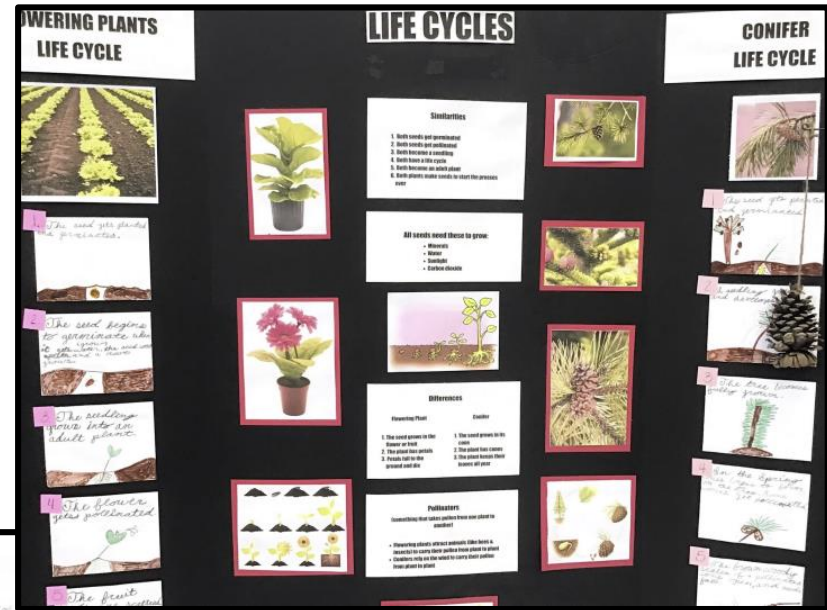
Celtic Art and The Holy Trinity

Students explore Celtic art and symbols. Students use geometric shapes and patterns to create a triquetra or Trinity knot to illustrate the three-ness in oneness of God.



3rd Grade Science Life Cycles Project

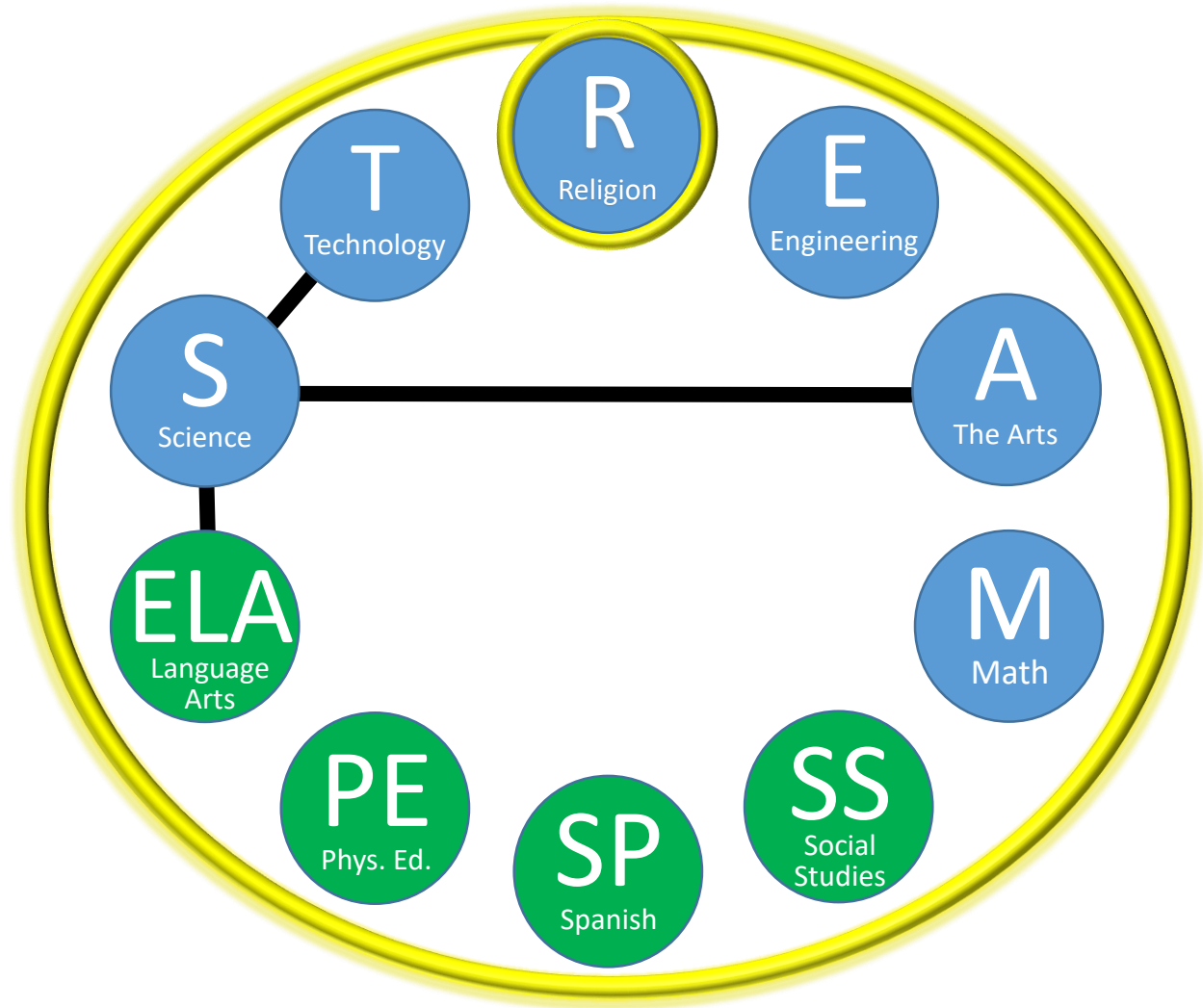
Students demonstrate their knowledge of plant life cycles while comparing and contrasting conifers to flowering plants.



3rd Grade Science

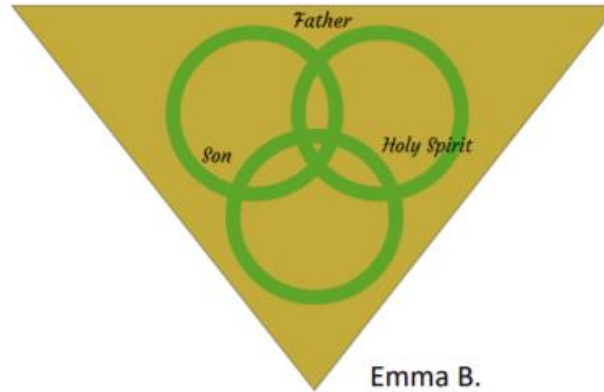
Life Cycles Project

Students are given a choice menu to demonstrate their knowledge: make a model, write a song, Google Slides presentation, a report, poster, or comic strip.



5th Grade
Religion
*Celtic Art
and
The
Holy Trinity*

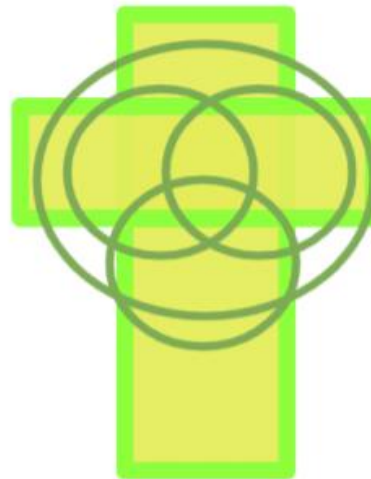
Student art
created with the
Google Slides app



Emma B.



Julia B.



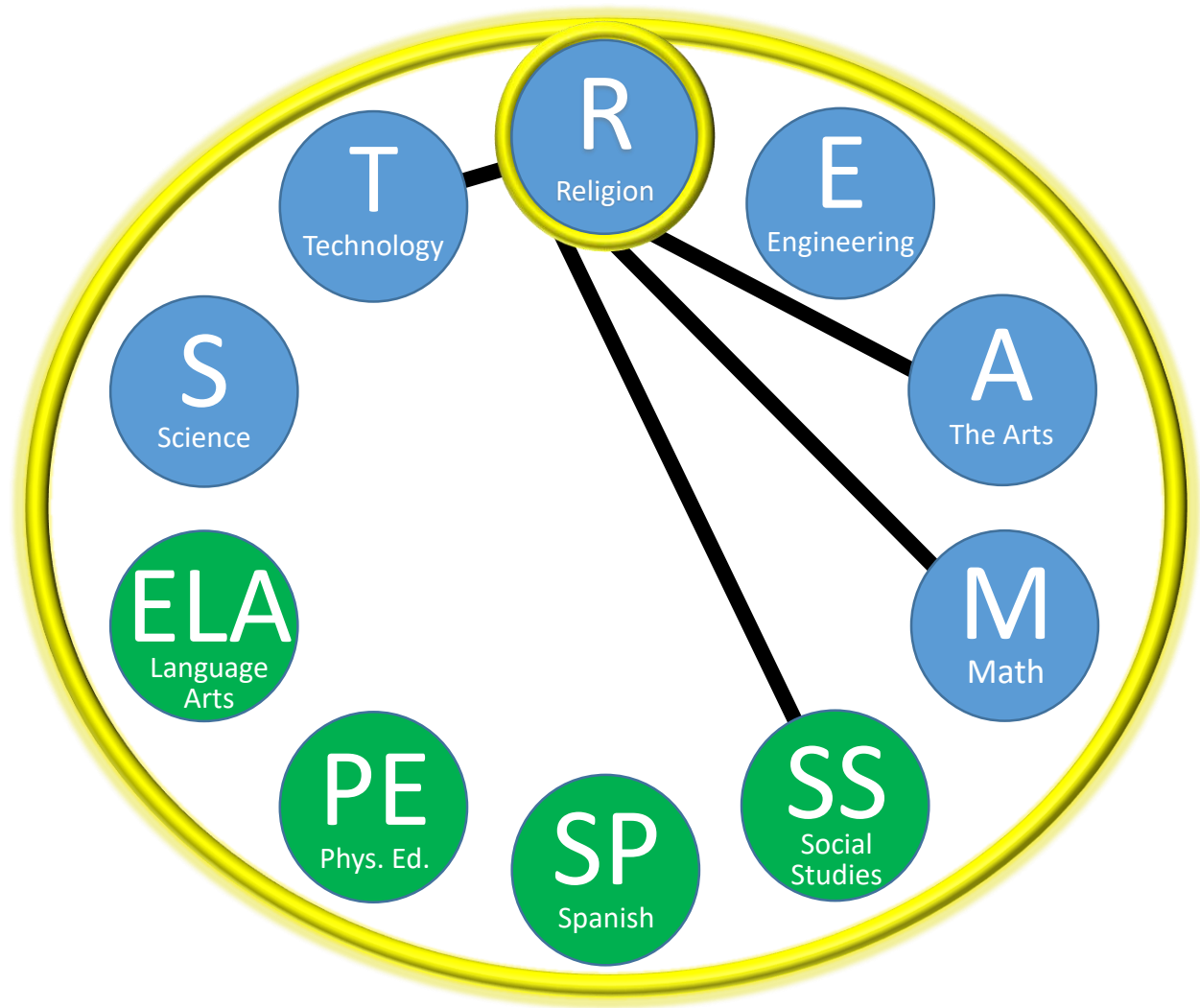
Jedrek G.



5th Grade Religion

Celtic Art and The Holy Trinity

Students explore Celtic art on Chromebooks. Students design their own Trinity knot using geometric shapes and patterns in Google Slides to explore the three-ness and one-ness of God.

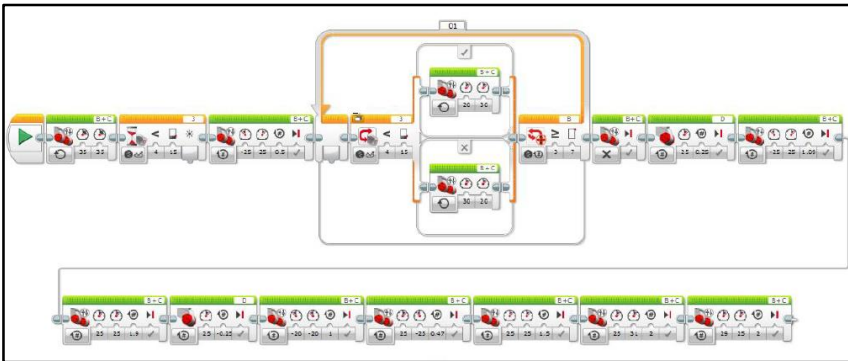


K-8th Grade Art

Programming EV3 Robots with Lego Mindstorms Software



Testing a program to solve a challenge



An example of students' programming

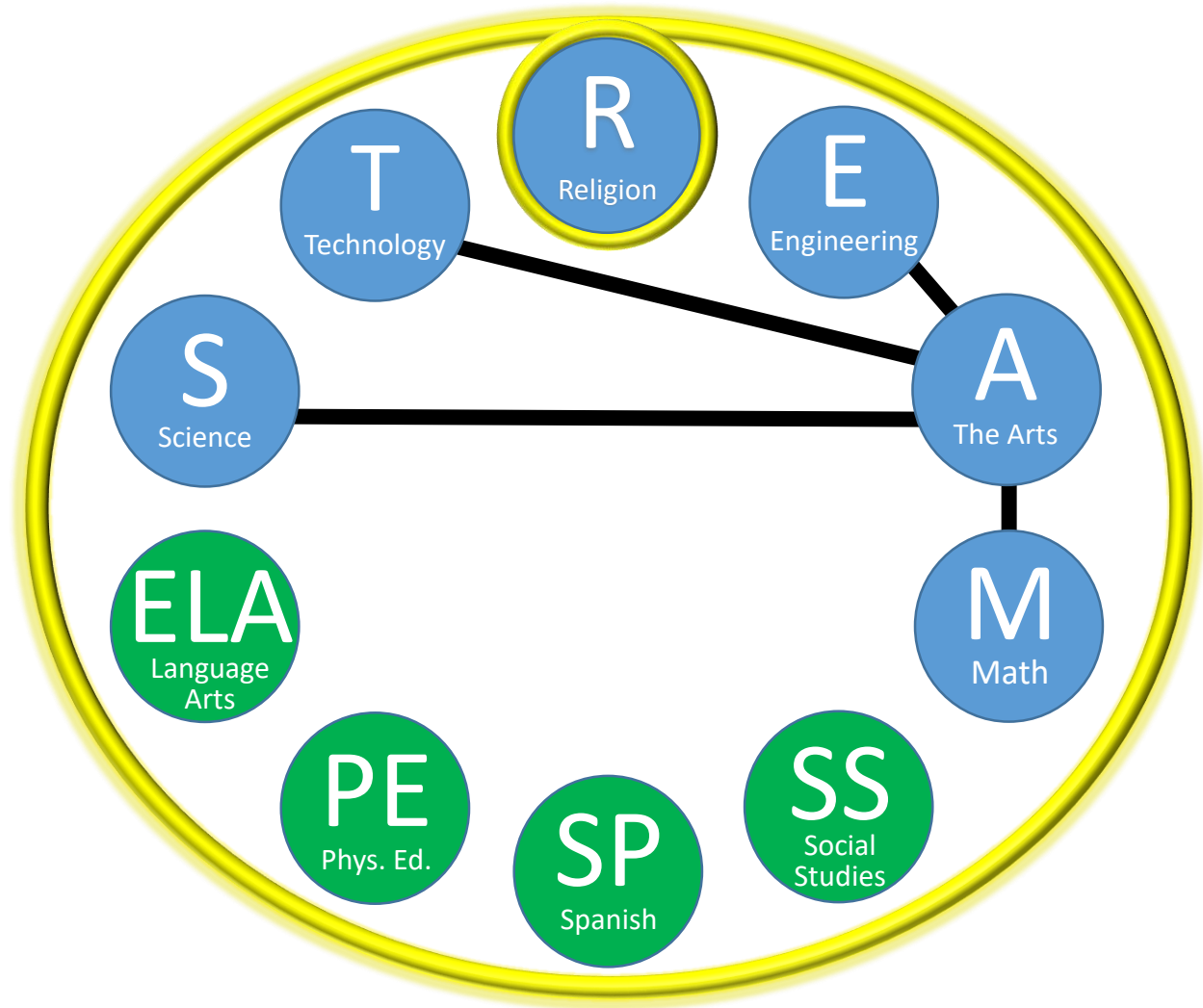


Building robots for use by all classes

K-8th Grade Art

*Programming
EV3 Robots
with Lego
Mindstorms
Software*

Students rotate duties as they work in groups to solve programming problems and manage their robots. Robots are built by 5th graders and 6th-8th grade volunteers prior to use with K-8 classes.



6th-8th Grade Social Studies

Country Project

Students research their topic, write a script for their presentation, figure out the method (technology) they would like to use to present their info, and teach us about the culture of different places.



Photos from Student Videos

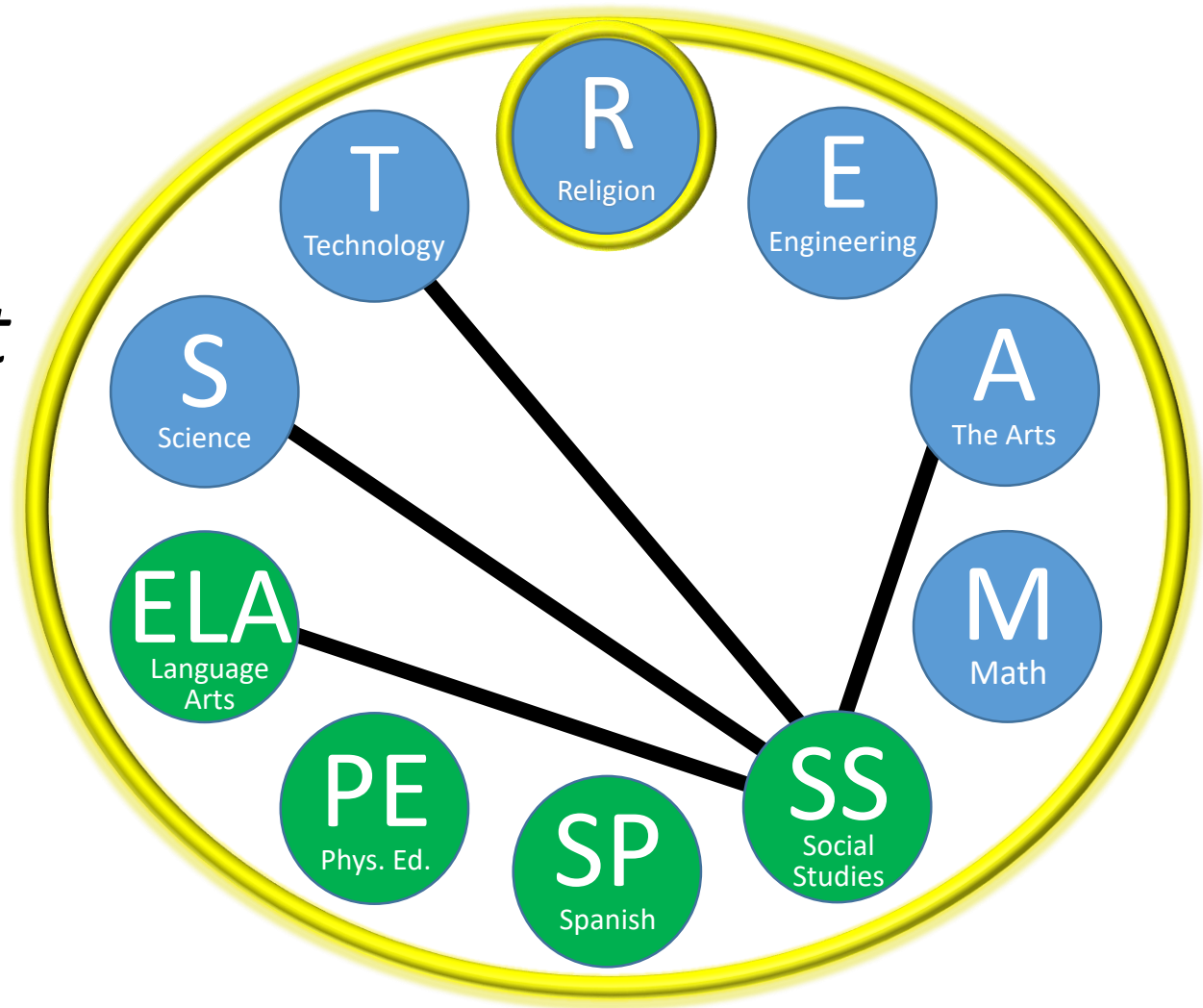


6th-8th Grade Social Studies

Country Project

Involves:

Research
Writing
Geography
Technology
Critical Thinking
Creativity
Presentation



Middle School Computer Technology

Coding

Students use higher level thinking and problem solving skills while coding with Swift Playgrounds.

Composing a New Behavior

Goal: Use composition to turn to the right.

Have you noticed there's no `turnRight()` command available to you? If your character needs to turn right to reach a gem, how can you make that happen?

You sometimes have to solve **coding** problems by combining existing commands to create a new behavior. This process is called **composition**.

- 1 Figure out how to turn to the right using only the commands you've used before.
- 2 Use composition to turn your character to the right when needed.
- 3 Enter the commands to collect the gem.

```
moveForward()  
moveForward()  
moveForward()  
turnLeft()  
turnLeft()  
turnLeft()  
moveForward()  
moveForward()  
moveForward()  
collectGem()
```

Way to go!

By combining three left turns, you enabled your character to turn right, even though there's no **command** for that. This is called **composition**, where you combine existing code to complete a new task.

[Next Page](#)

Bug Squash Practice

Challenge: Reorder the commands to debug the code.

In this challenge, you'll practice your **bug-finding** skills by finding and rearranging the **commands** that are out of order in the code below.

Watch out!

Notice that one of the switches on this map starts **out open**. If Byte toggles that switch **closed**, it's a bug in your code. You need all switches toggled open to complete the challenge.

It's a good idea to run your code every time you make a change, to make sure you've located and fixed each bug. Don't worry if you end up trying many times. Making mistakes is actually one of the best ways to learn something new and remember it for a long time!

```
moveForward()  
turnLeft()  
moveForward()  
moveForward()  
toggleSwitch()  
moveForward()  
moveForward()  
moveForward()  
moveForward()  
moveForward()  
collectGem()
```

Incredible work!

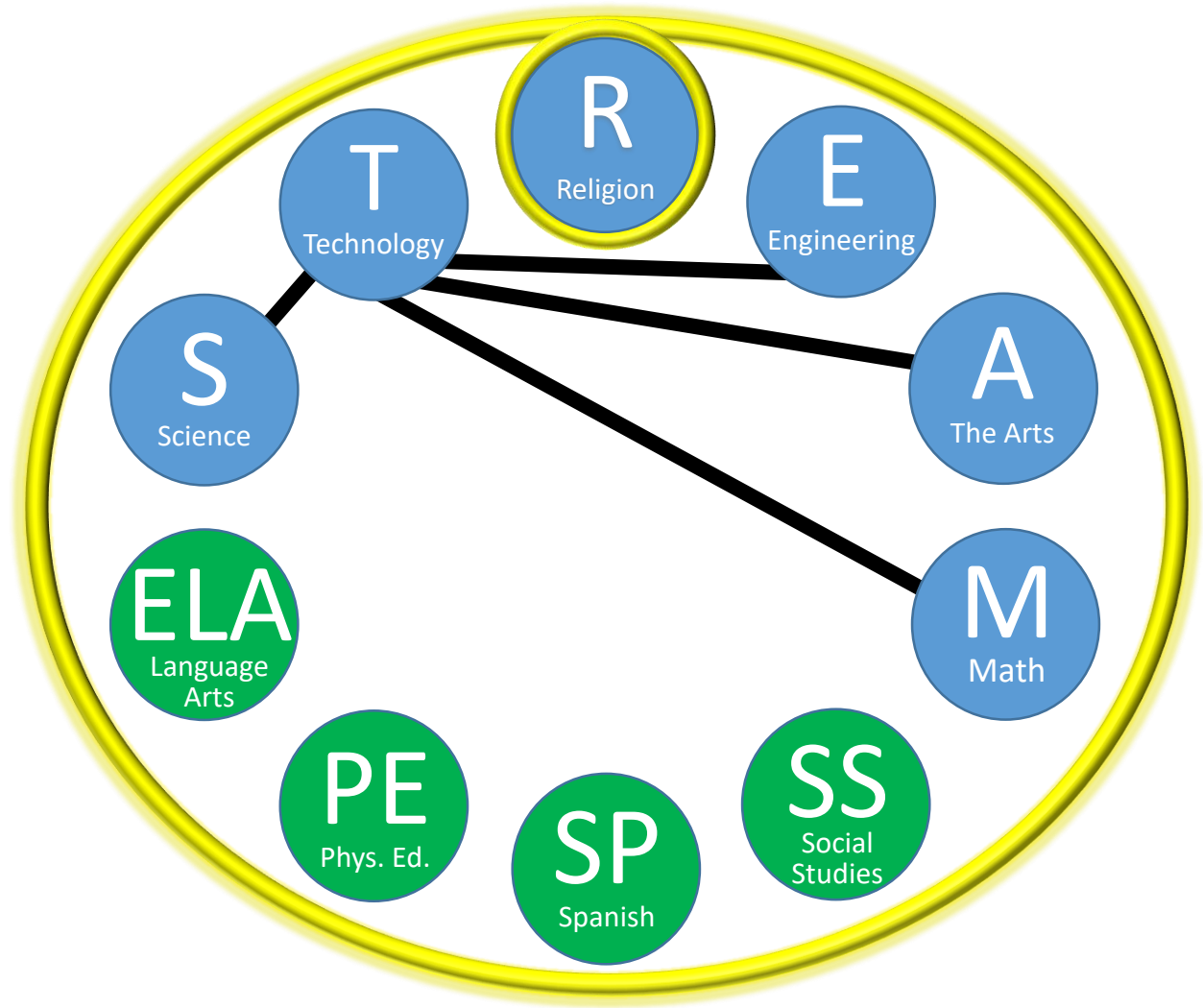
You found all the bugs in the code!

[Next Page](#)

Middle School Computer Technology

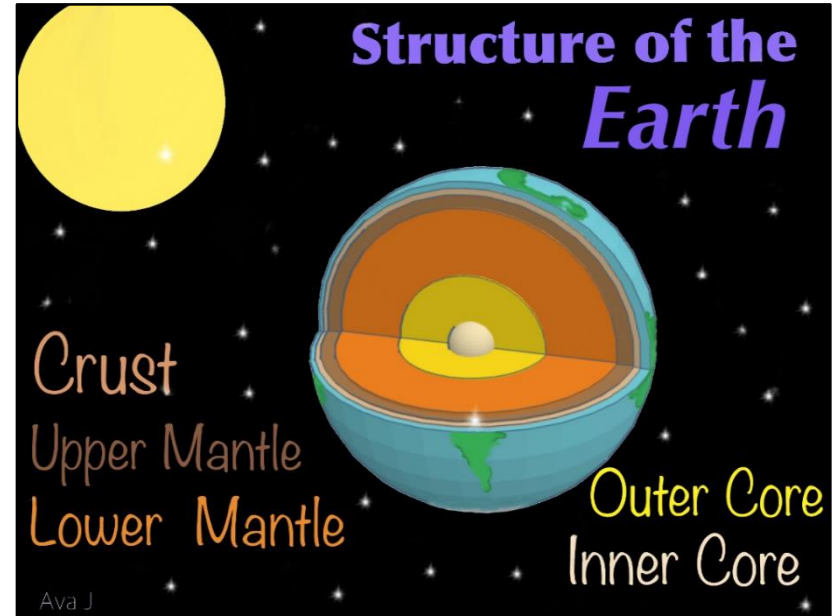
Coding

Coding is a foundational skill for engineering, which brings together science, technology, the arts, and math.

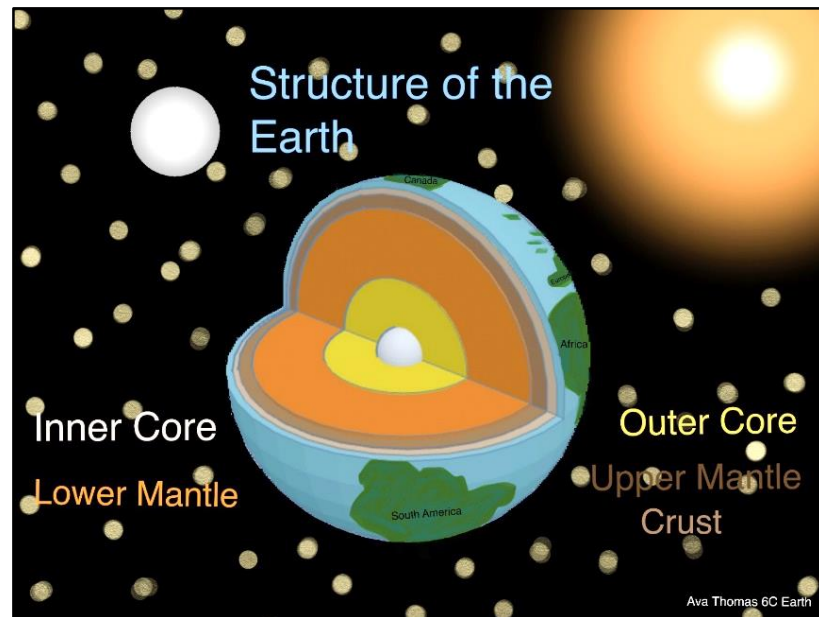


6th Grade Art and Science

*Virtual
Models of
the Earth's
Layers
with Tinkercad
and
Sketchbook apps*



Ava J.

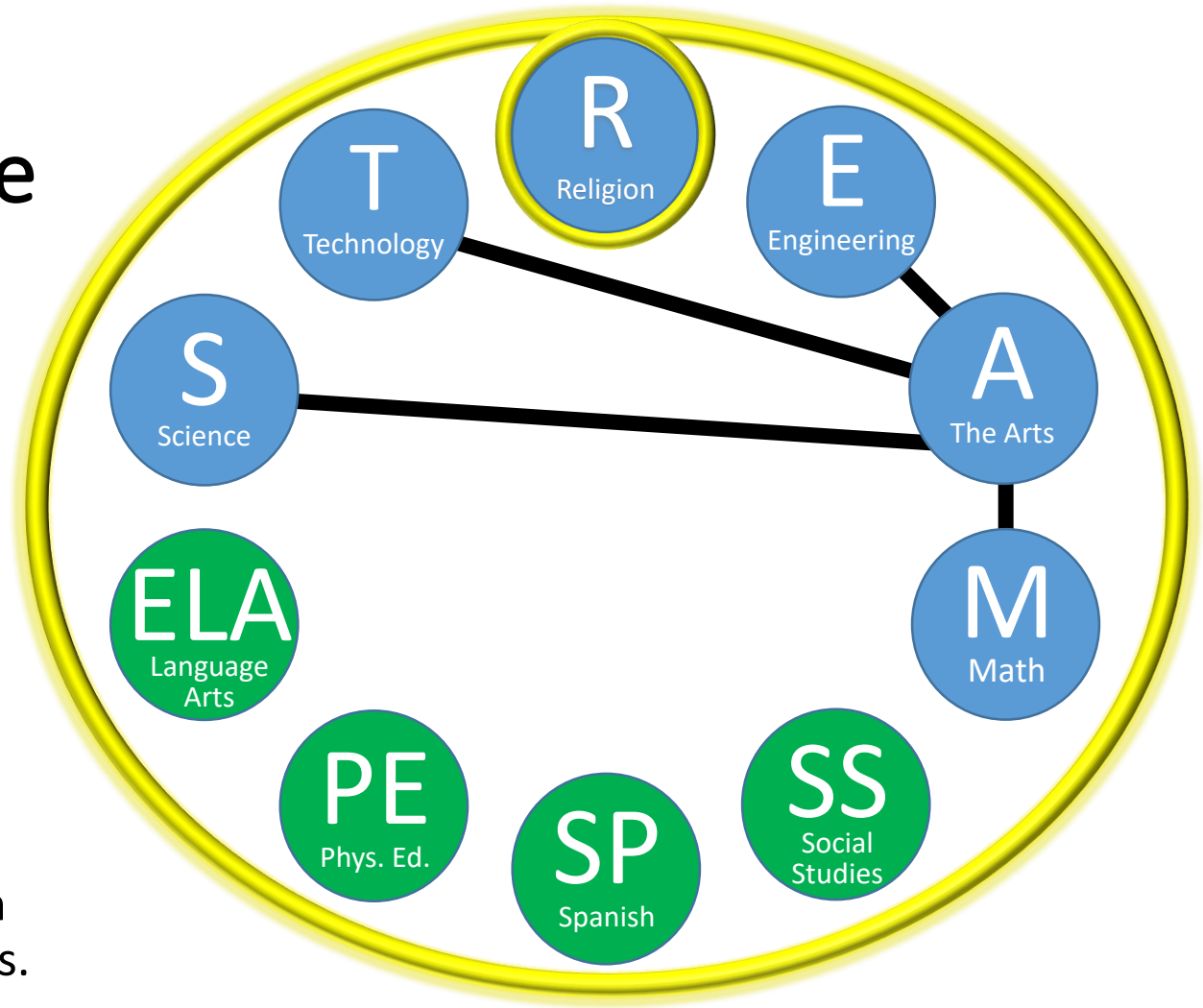


Ava T.

6th Grade Art and Science

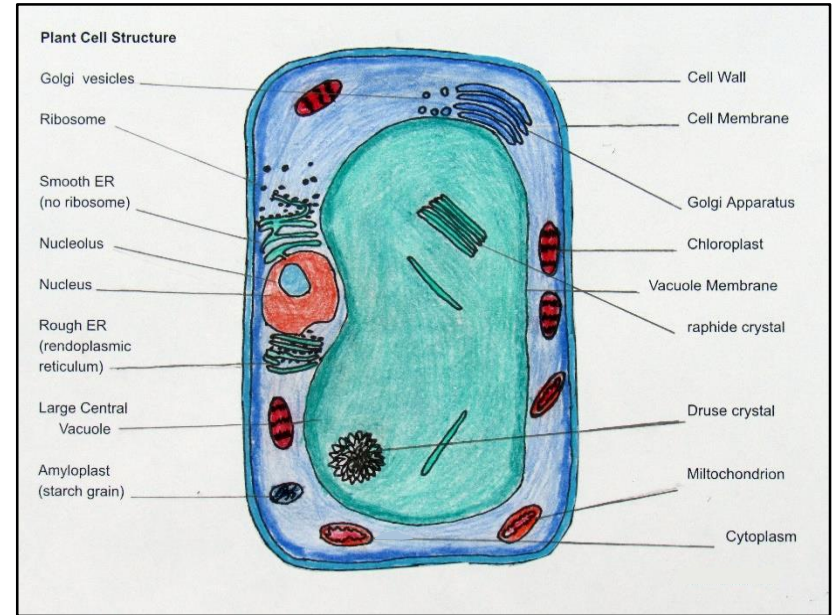
Virtual Models of the Earth's Layers

Students use Tinkercad
and Sketchbook apps on
iPads to create 3D models.



6th Grade Art and Science

Animal and Plant Cell Drawings and Pillows



Judi



Kaylee

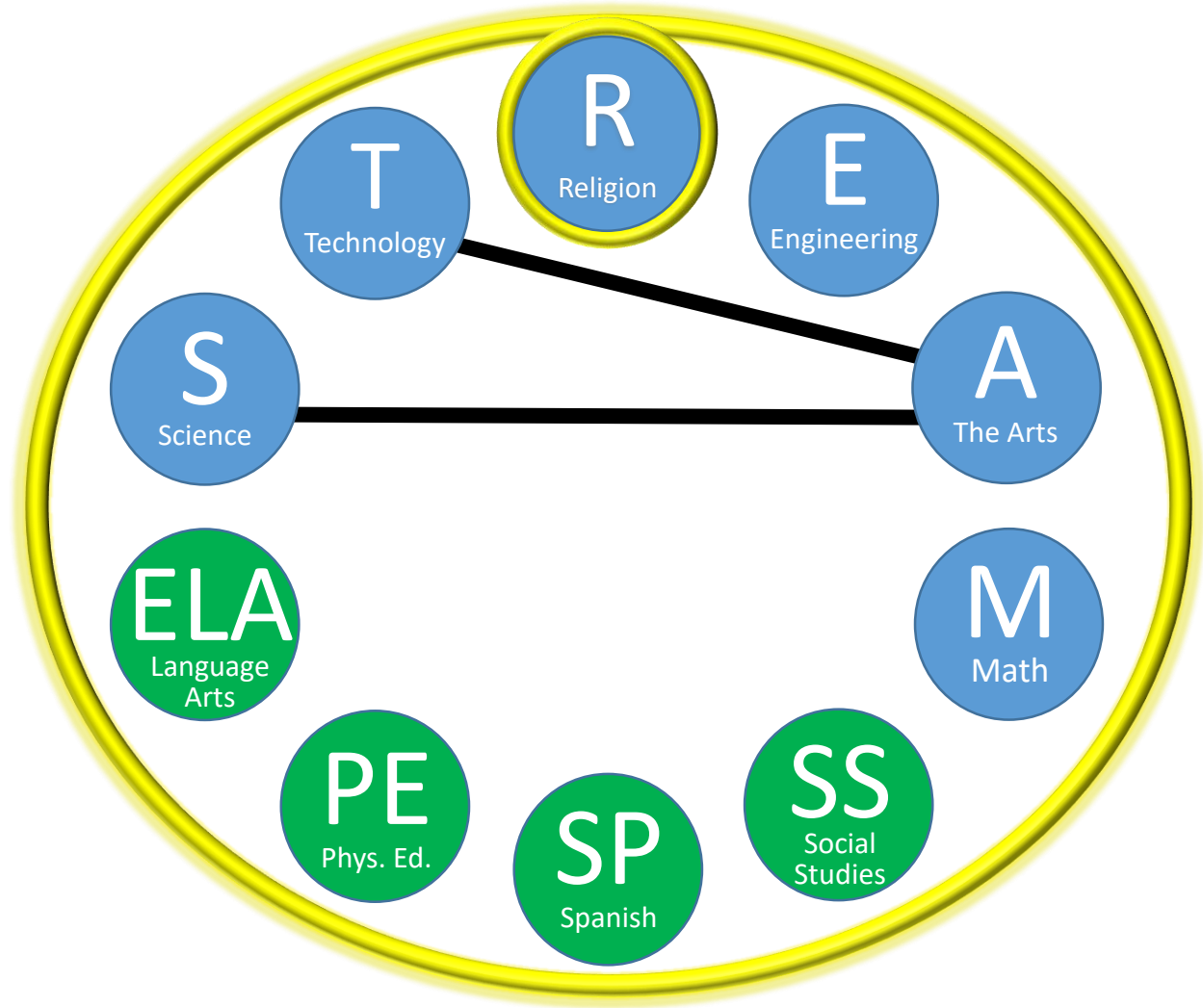


Juju

6th Grade Art and Science

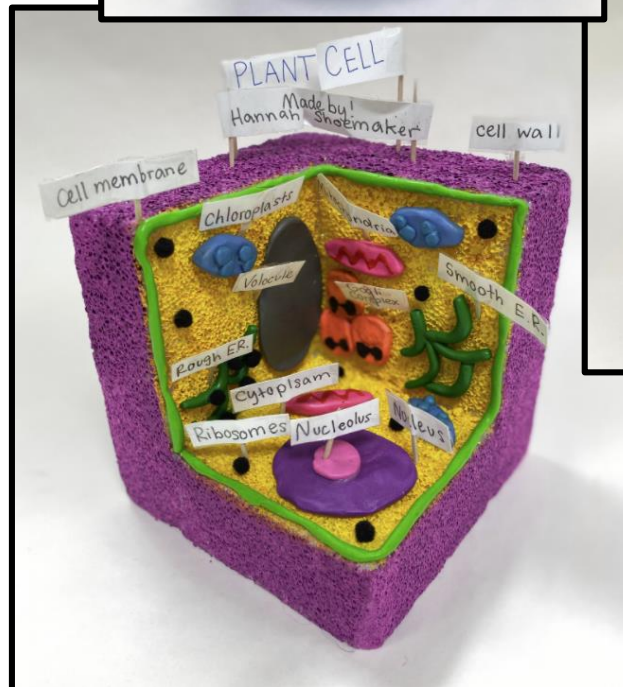
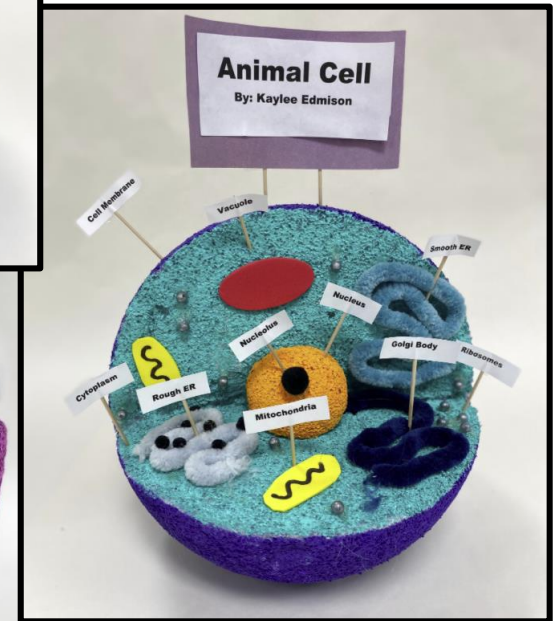
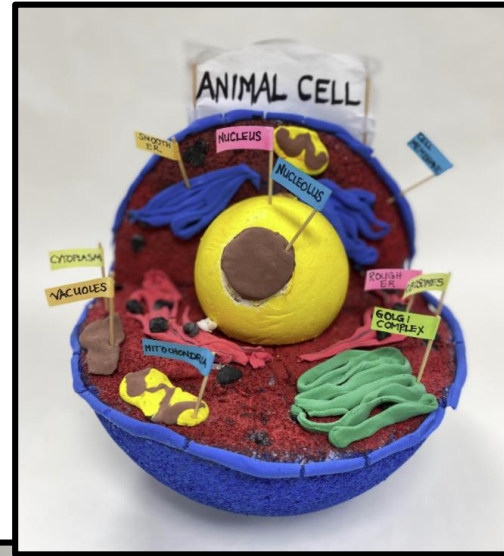
Animal and Plant Cell Drawings and Pillows

Students learn sewing skills while reinforcing science class content. They create and print text pages in the computer lab.



7th Grade Science

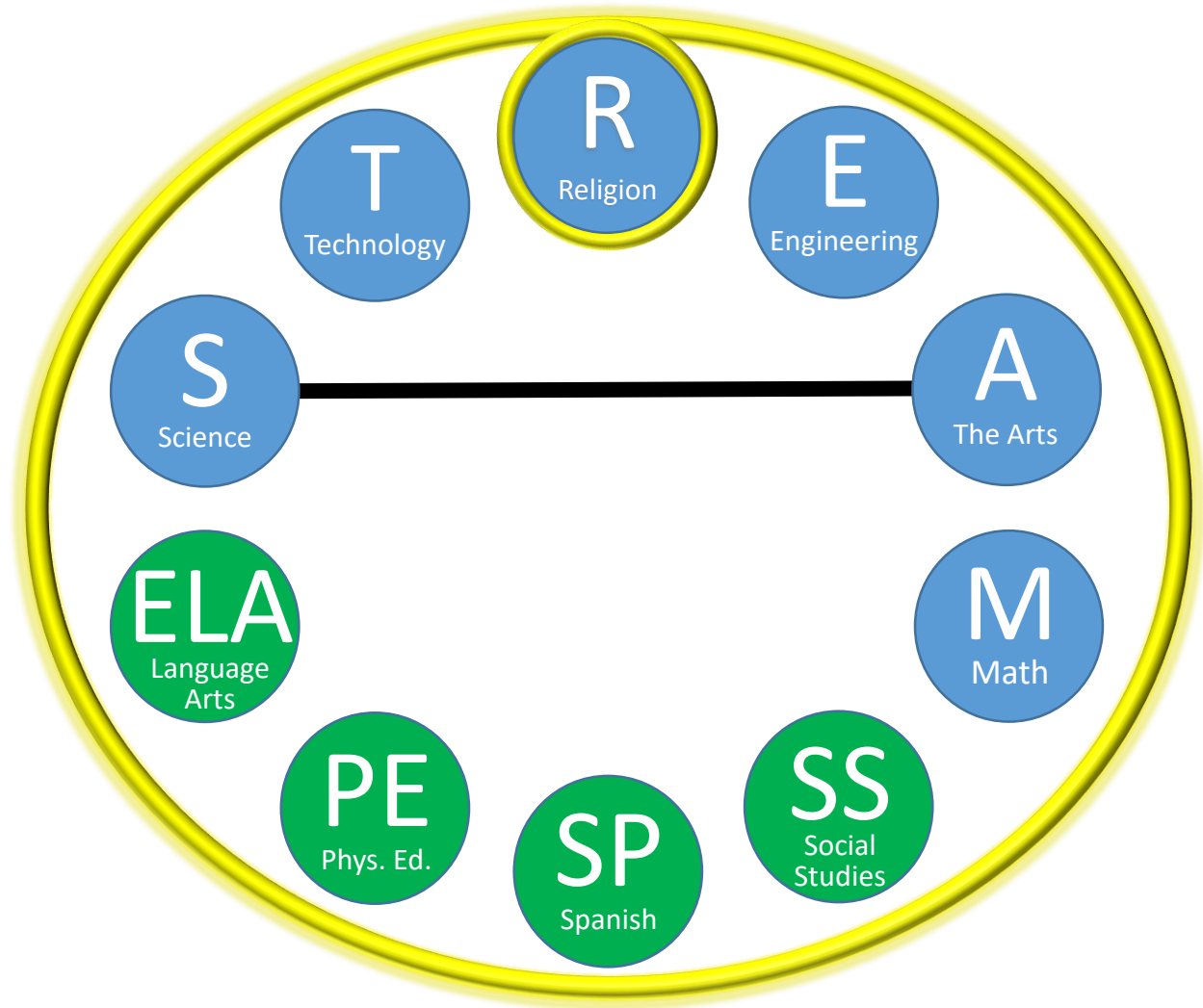
Animal and Plant Cell Models



7th Grade Science

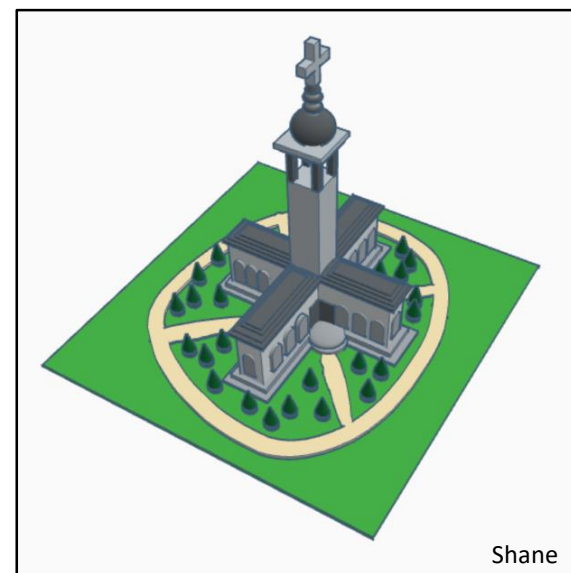
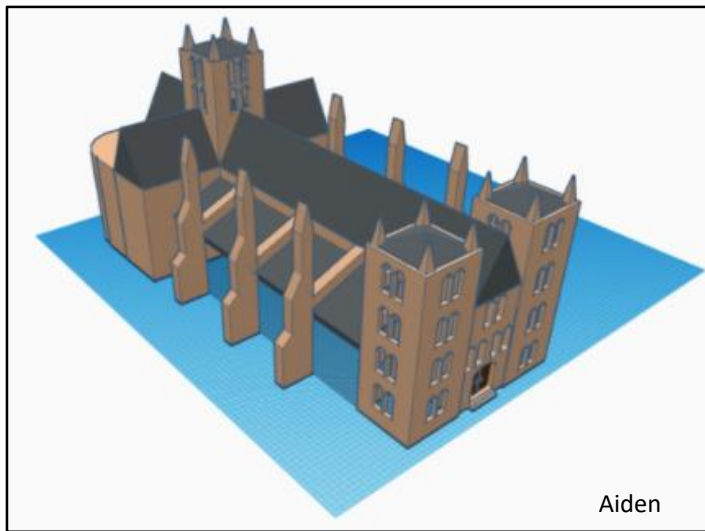
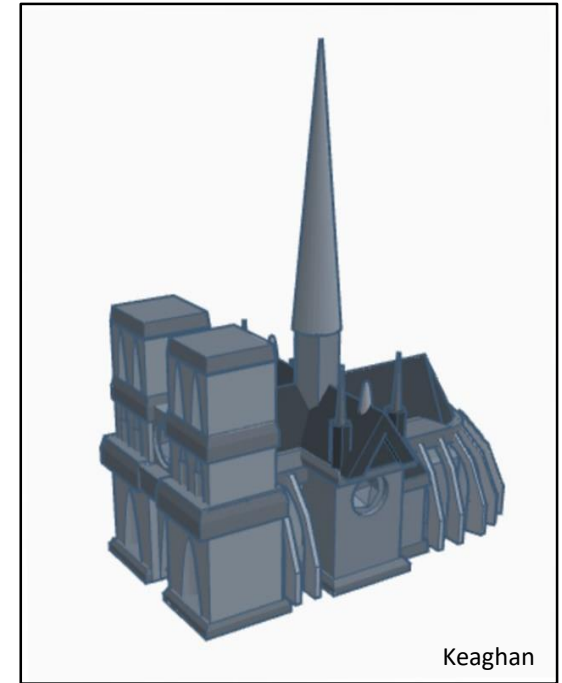
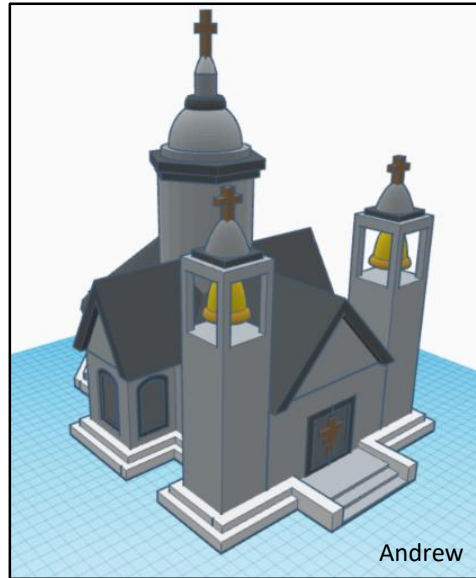
Animal and Plant Cell Models

Students design and create physical models of cells with Styrofoam and a variety of other materials.



7th Grade Art

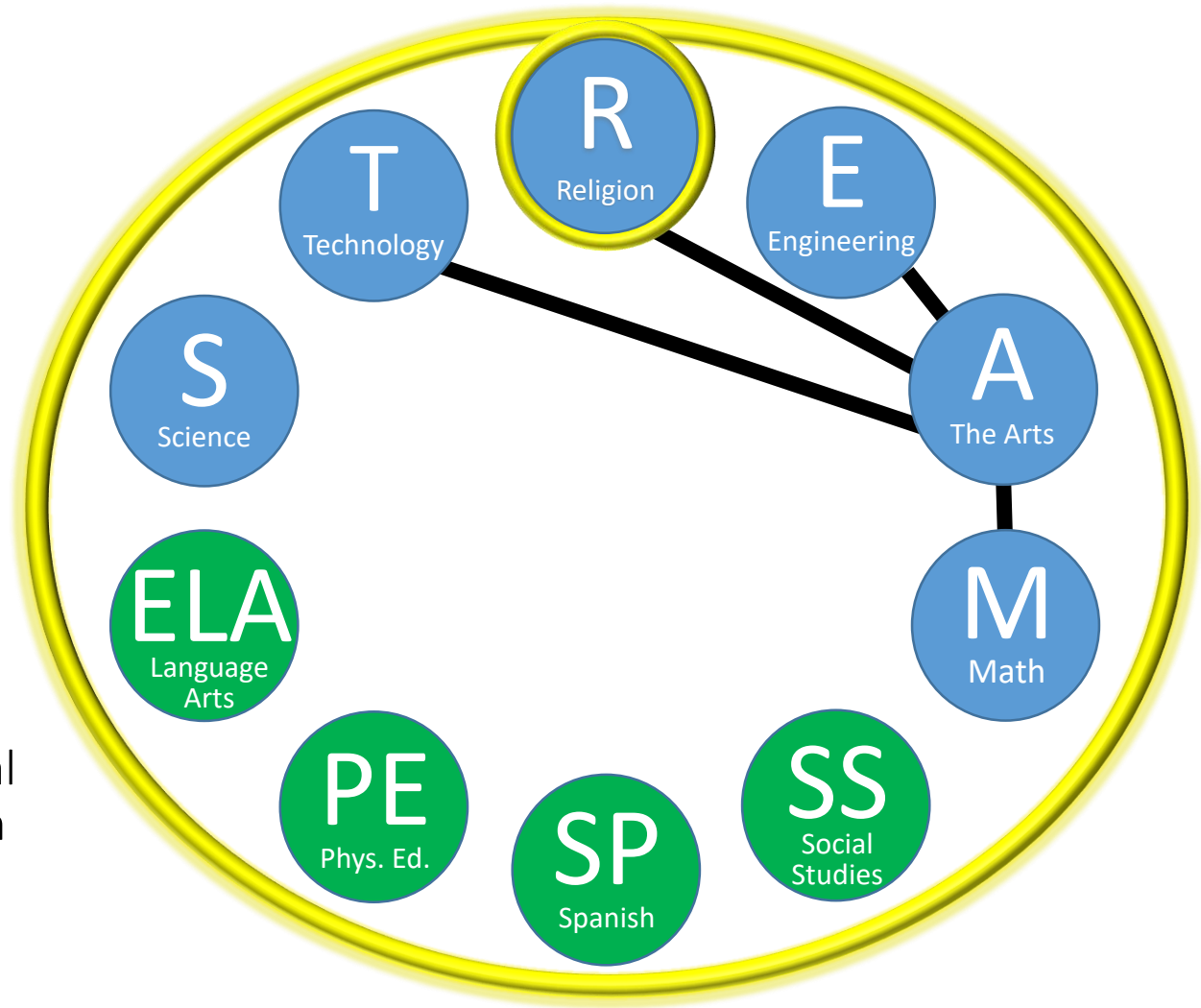
Church Design with Tinkercad



7th Grade Art

Church Design with Tinkercad

Students use Tinkercad Computer-aided Design software to create virtual churches with cruciform ground plans.



7th Grade Science


Plant "Mash-up"

Hybrid Plant Design

Name the two plants you are combining:
1. Yellow Poplar 2. Spider Plant

Name the challenge: Purifying Air/Global Warming

Illustrate your hybrid below:



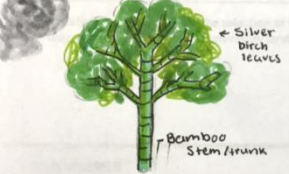
In the space below, describe the features of your hybrid and how it will help your community.
The plants I chose could reduce global warming and purify the air. The yellow poplar tree takes in the most CO₂ out of most other trees. Since CO₂ is a big cause of global warming, trees that take in a lot would be helpful. The spider plant has been proven to remove 90% of cancer-causing chemicals from the air. The spider plant also purifies the air in general.

Student Name: Michael Dunn Teacher Email: chaigwood@episc.net
Teacher Name: Mrs. Haigwood School Address: 2606 E. 5th Street
School Name: Saint Peter Catholic School School City/State/Zip: Greenville, NC, 27858

Name the two plants you are combining:
1. Bamboo 2. Silver Birch Tree

Name the challenge: Reduce pollution

Illustrate your hybrid below:



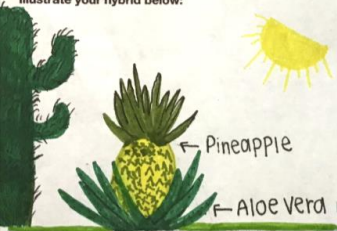
In the space below, describe the features of your hybrid and how it will help your community.
Combining a silver birch tree and bamboo will help reduce pollution. Bamboo reduces up to 35% of carbon dioxide in the air, and it also helps a bit with water pollution. Silver Birch trees absorb as much as 80% of car pollution. Combining these plants will help reduce pollution in different ways. The trunk is bamboo and the leaves are from the birch.

Student Name: Gabi Casilio Student Grade: 7th
Teacher Name: Mrs. Haigwood Teacher Email: chaigwood@episc.net
School Address: 2606 E 5th Street

Name the two plants you are combining:
1. Alo vera 2. Pineapple

Name the challenge: Pineapple over a

Illustrate your hybrid below:



In the space below, describe the features of your hybrid and how it will help your community.
I chose these two plants because aloe vera is great for your skin and digestive system. It can be used to help sunburn and other sores. Pineapple is not only a great snack but can also clear air pollution in the lungs but also help you heal faster after surgery and clears air pollution in your house. This hybrid can help air pollution and hunger!

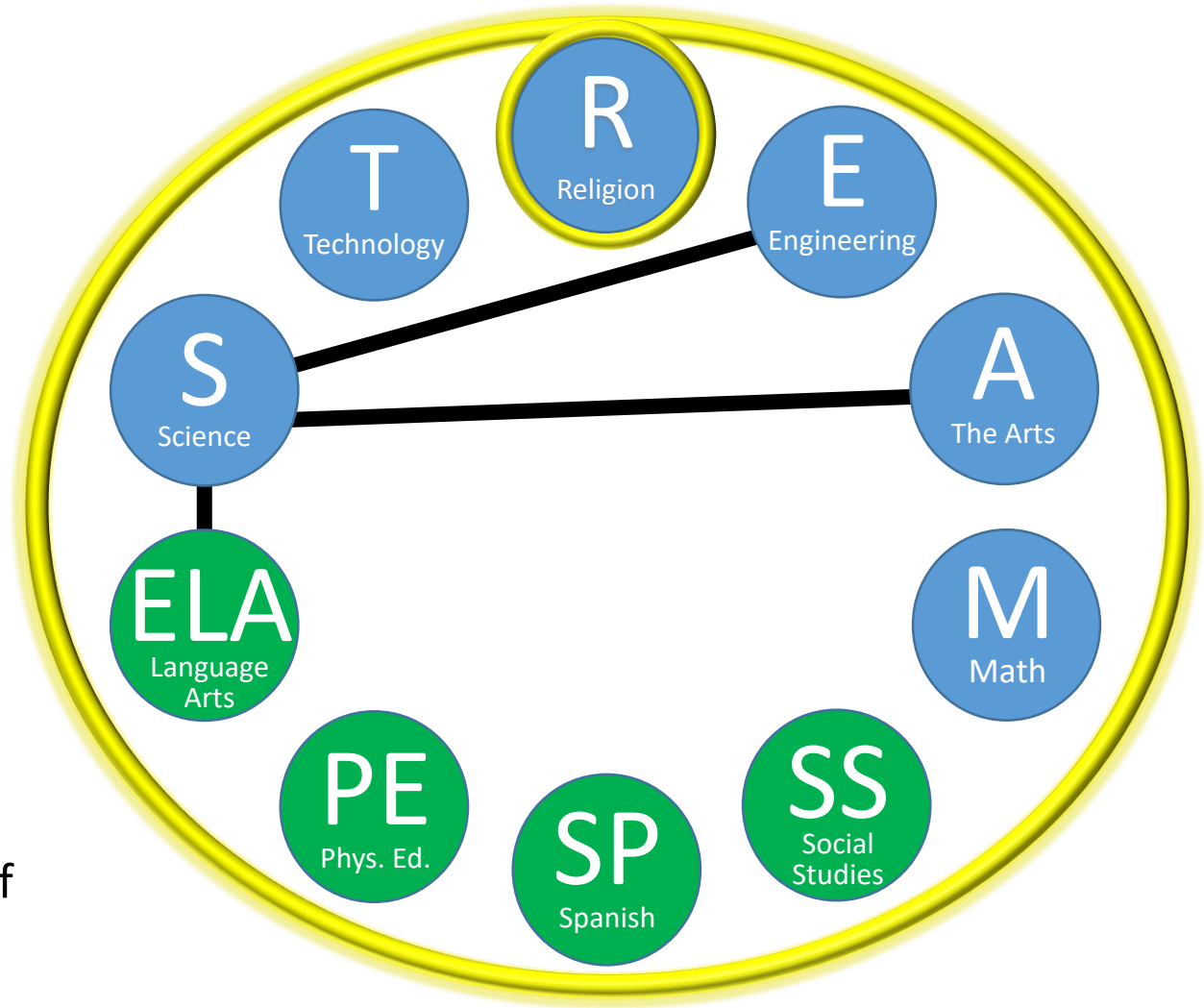
Student Name: Judi Balot Student Grade: 7th Grade
Teacher Name: Mrs. Haigwood Teacher Email: chaigwood@episc.net
School Name: Saint Peter Catholic School School Address: 2606 E. 5th Street
School City/State/Zip: Greenville, NC 27858

7th Grade Science

Plant "Mash-up"

Hybrid Plant Design


Students research types of plants. Then, they design and describe the hybrid plants that they imagine.



7th Grade Math and Art

Mini-golf design with Tinkercad

Dimensions/Calculations Part 3: Perimeter



Special Calculations:

A. 10 Green Hoops
10x3.14159=31.4159

B. 10x4.71=47.1

C. 10x3.14159=31.4159

D. 10x3.14159=31.4159

E. 10x4.71=47.1

F. 10x3.14159=31.4159

G. 10x3.14159=31.4159

H. 10x4.71=47.1

I. 10x3.14159=31.4159

J. 10x4.71=47.1

K. 10x3.14159=31.4159

L. 10x4.71=47.1

M. 10x3.14159=31.4159

N. 10x4.71=47.1

O. 10x3.14159=31.4159

P. 10x4.71=47.1

Perimeter = 211.95 + 25 + 45 + 25 + 45 + 45 + 25 + 45 + 25 + 45 + 63.94 + 140 = 140 + 70.95 + 140 + 140 + 70.95 + 140 + 95 + 45 + 140 + 140 + 88 + 110.31 + 110.31 + 140 + 95 = 211.95

Perimeter = 2,595.46 mm

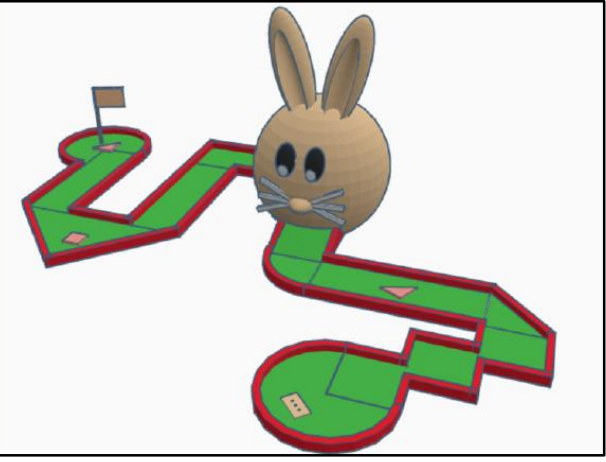
Calculations Part 1: The "Greens"

Total Surface Area of the Greens:

4781.075 + 2025 + 2025 + 1012.5 + 6300 + 1000.005 + 1000.005 + 6000 + 6000 + 6084 + 6000 + 6084 + 2011.2 + 1000 + 2213.2 = 57,450.9mm²

Estimated Cost for Materials

The Greener Side Turf, Co.	\$561.68
Bricks and Stones, Inc.	\$234.00
Sales Tax Owed (@ 7%)	\$55.70
TOTAL ESTIMATED COST OF MATERIALS FOR YOUR MINI GOLF PROJECT	\$851.38



Anthien



David

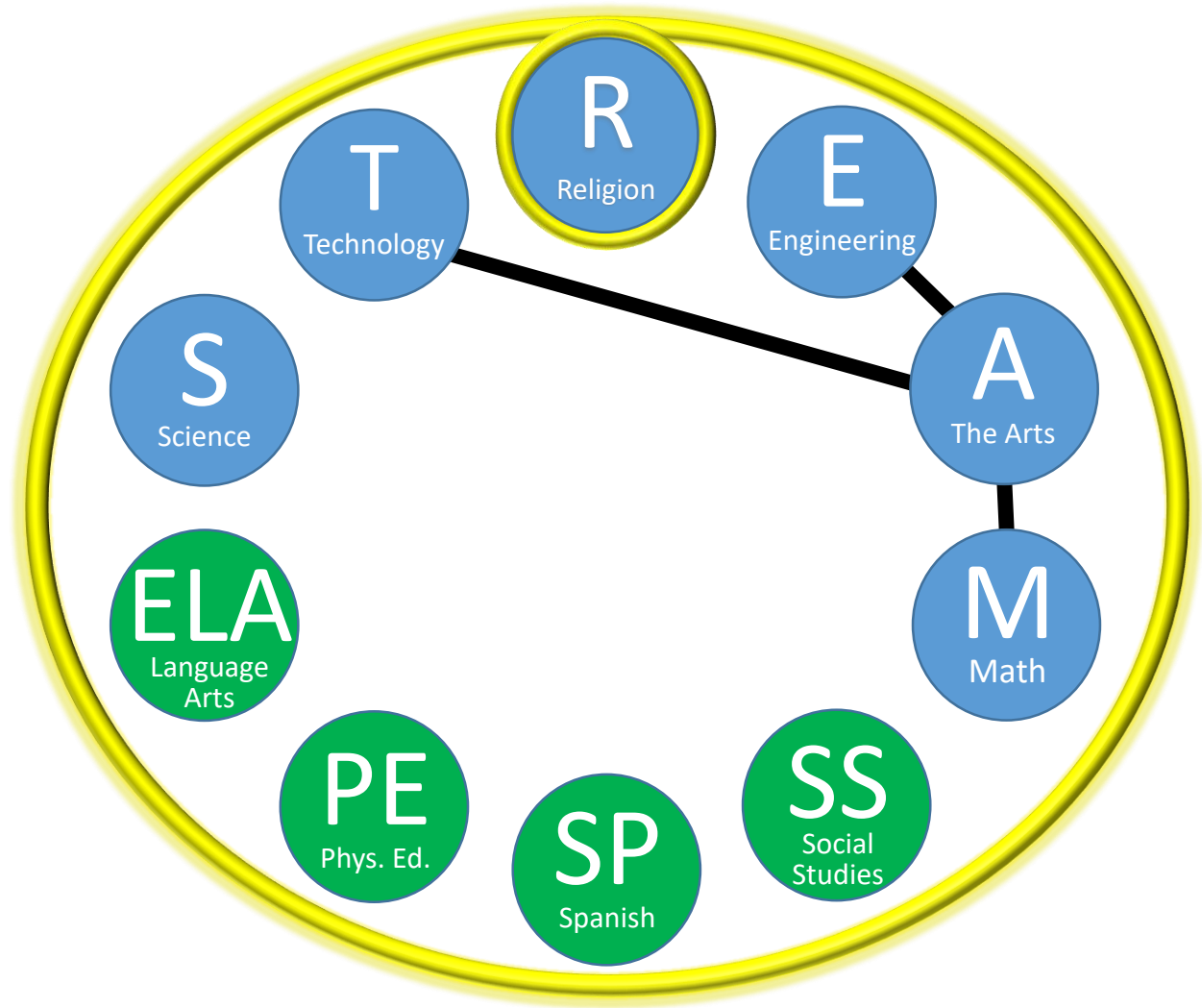


Edward

7th Grade Math and Art

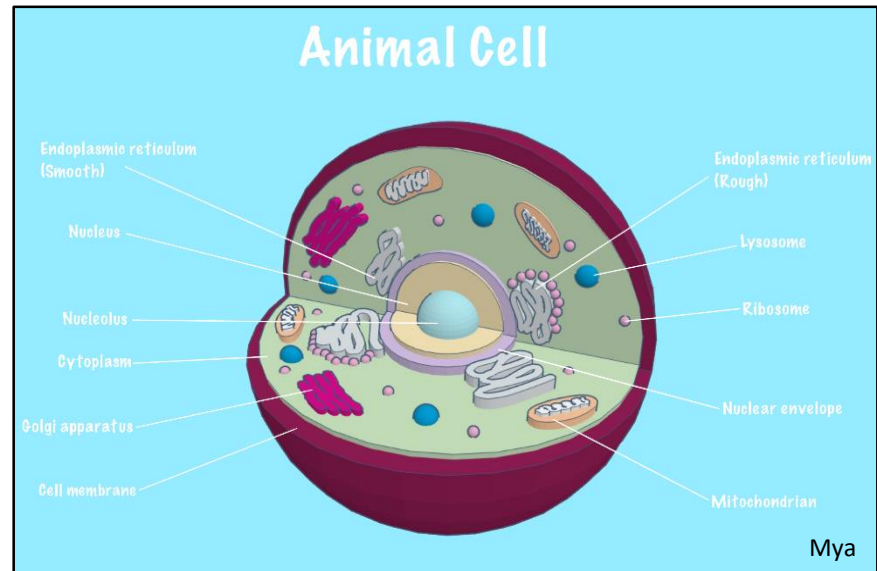
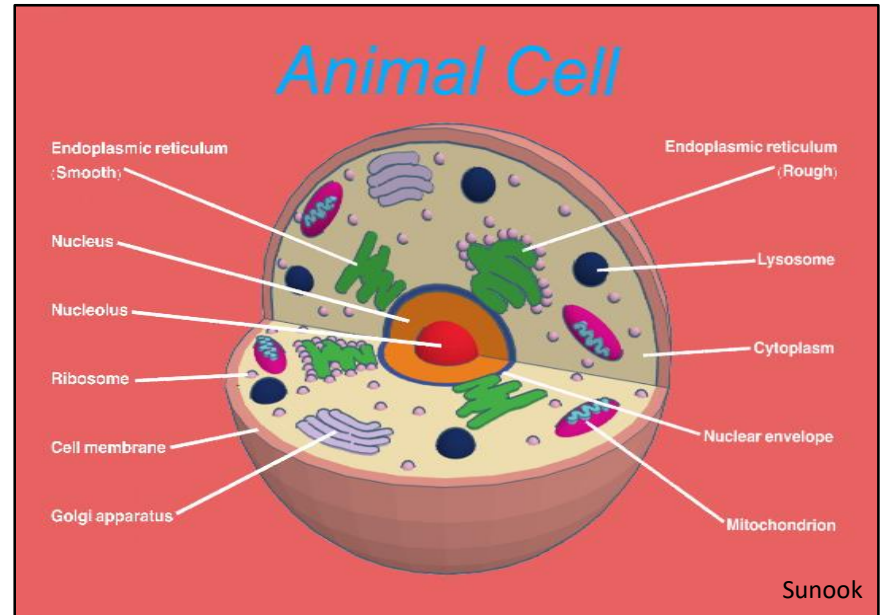
Mini-golf design with Tinkercad

Students use Tinkercad Computer-aided Design software to design mini-golf lanes and make calculations of area and cost of materials.



7th and 8th Grade Art and Science

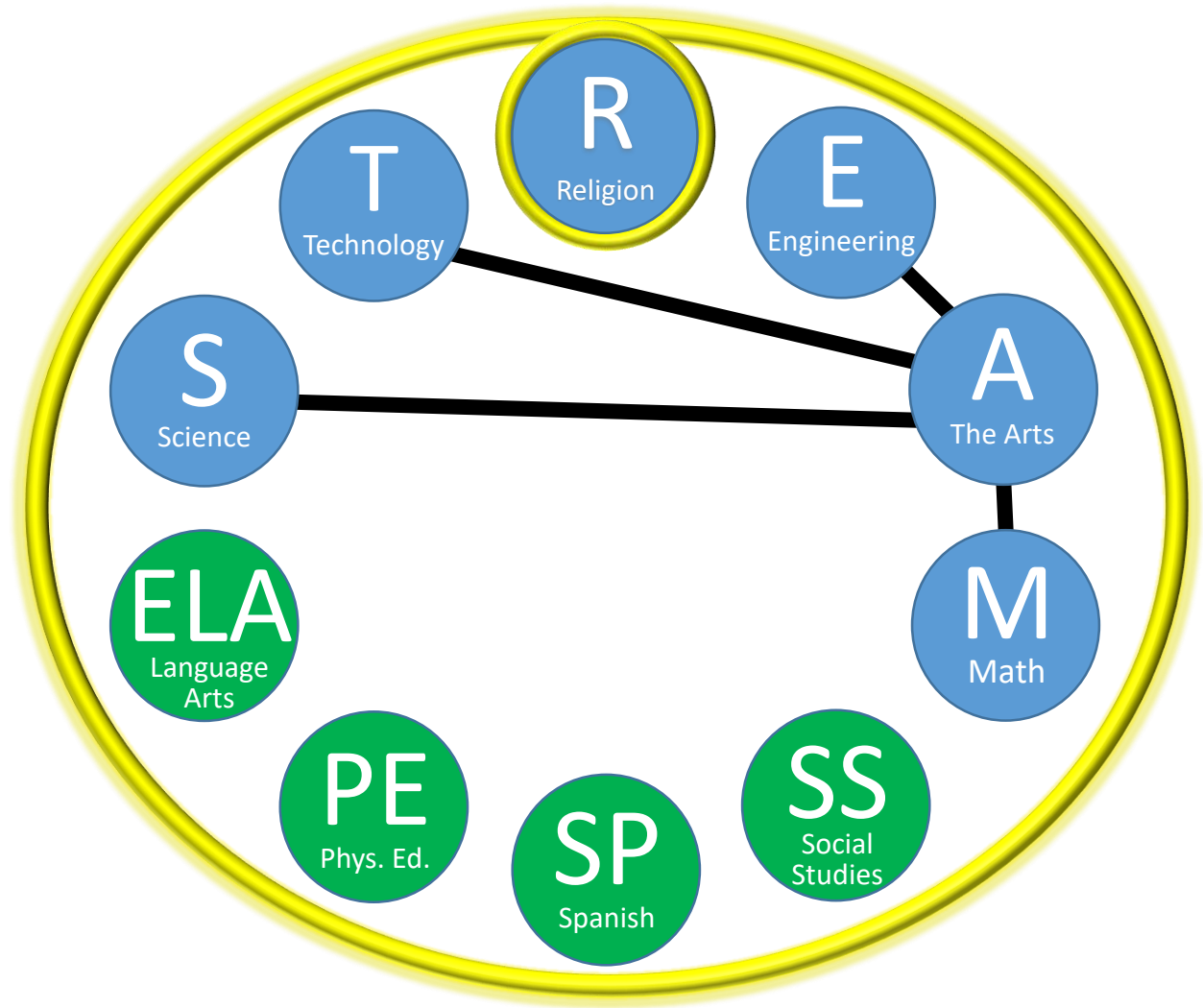
Virtual Animal Cell Models with Tinkercad and Sketchbook apps



7th and 8th Grade Art and Science

Virtual Animal Cell Models

Students use Tinkercad
and Sketchbook apps on
iPads to create 3D
models.



8th Grade
Science

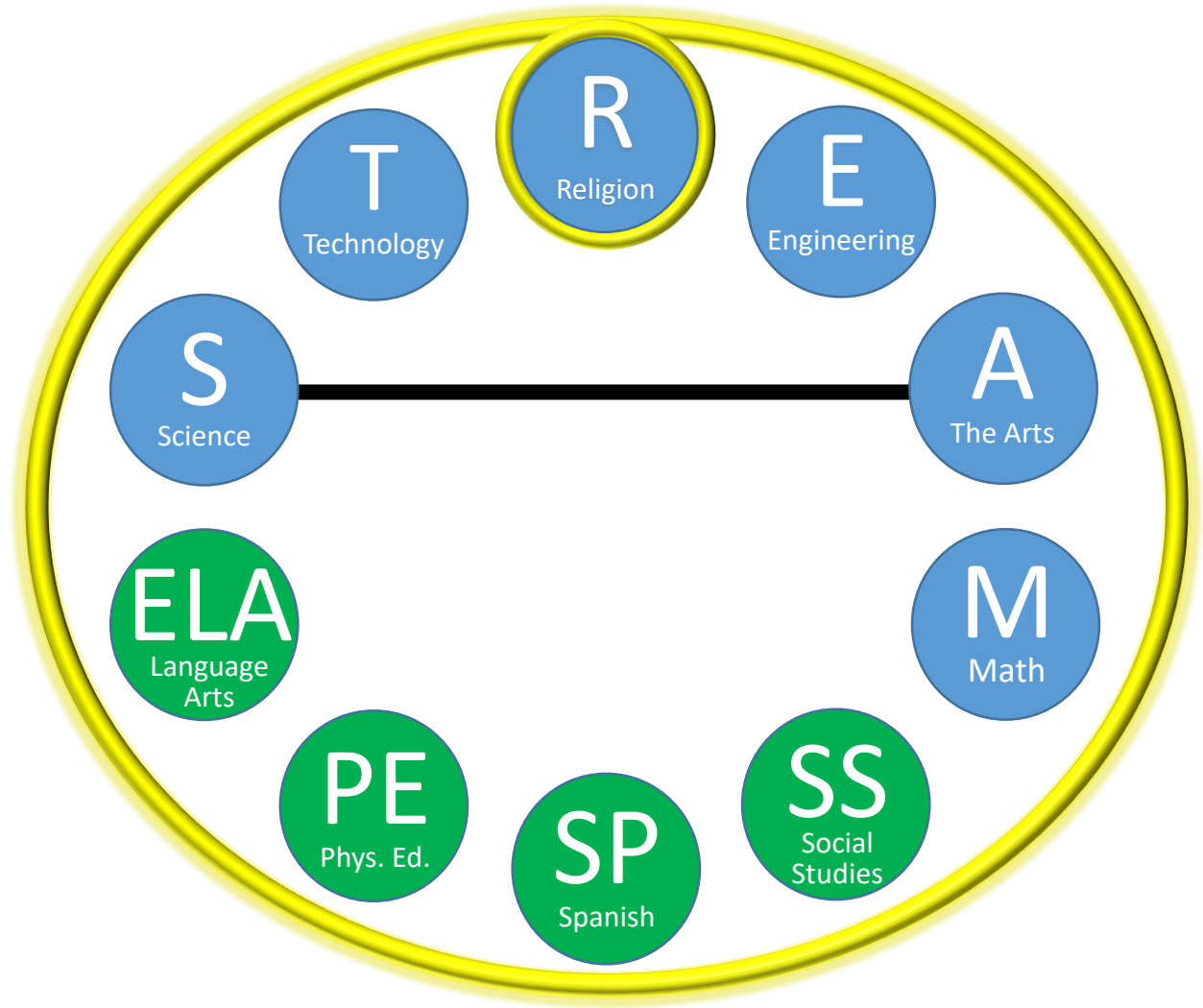
*Molecular
Models*



8th Grade Science

Molecular Models

Students design and create physical models of molecules with Styrofoam and a variety of other materials.



8th Grade Science

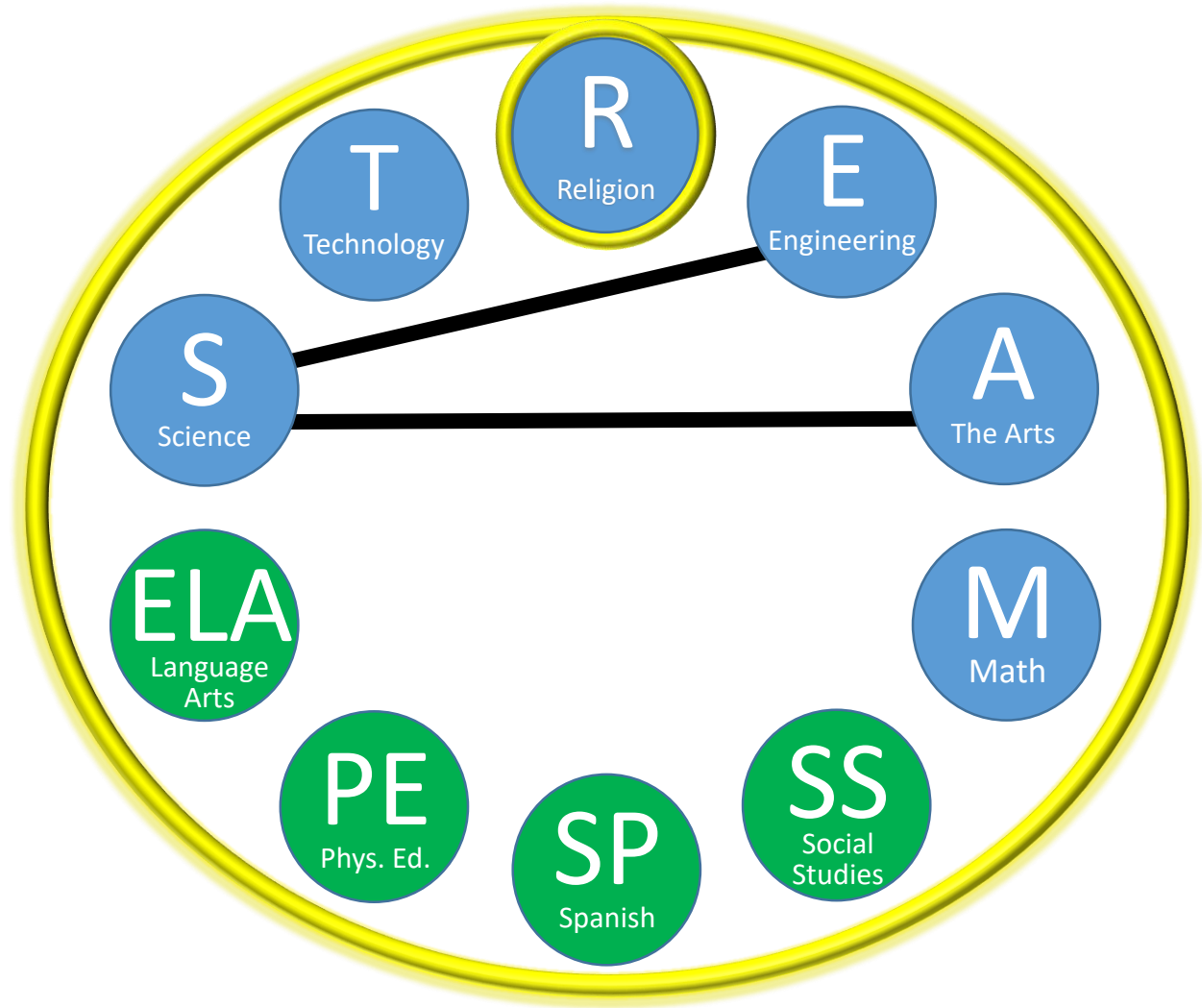
Roller Coaster Design and Construction



8th Grade Science

Roller Coaster Design and Construction

Students design and create structures with cardboard and a variety of other materials. A ball must be able to successfully transit the coaster.



8th Grade Computer Technology College Ambassador Project

Students became ambassadors for a 4-year North Carolina college and researched facts about the college. They created a Google Slides presentation and presented it to the class.

Elon University

Our school is located in Elon, North Carolina
www.elon.edu
We were established in the Year 1889
School Motto : "numen lumen"
meaning "spiritual and intellectual light"



ACADEMICS

The student to teacher ratio is 12:1

Most Popular / Least Popular Enrollment Majors:


Most Popular	Least Popular
Education	Technical Theatre
Economics	Recording Arts
Engineering	Public Policy Analysis

Special Programs


- Studying Abroad
- Internships

Graduation Rate

- 77% within four years
- 5% within five years
- No graduation within six years



Academic and Non-Academic Criteria



Academic

- Interview : Not considered
- Extracurricular activities : Very important
- Character/Personal qualities : Very important
- Alumni relationship : Considered
- State residency : Not considered
- Minority affiliation : Considered
- Volunteer work : Very Important
- Work experience : Very Important

Non-Academic

- Difficulty to enter : Moderately difficult
- Secondary school record : Very important
- Class rank is considered
- Standardized test scores : Not considered
- Essay : Important



Introduction of Our College

Quick Facts

- Total Enrollment = 7,000
- The nearest airport is Piedmont Triad International
- +15,000 applications received, +11,000 offered
- 60% in-state, and +1,500 who enrolled

Location

Our university is located in the Northern part of the state, right outside of Greensboro

Tuition

In state tuition vs. Out of state :
• Both the same
• \$37,414

Room and board for one academic year :
• 14,450

Estimated amount for books :
• \$900

University fees :
• \$510



\$\$\$

Photos from a Student Presentation

8th Grade Computer Technology

College Ambassador Project

Involves:

*Research
Writing
Geography
Technology
Critical Thinking
Creativity
Presentation*

