



Berrien Springs Public Schools

Together, inspiring students to think, learn, achieve and care in a global community.



## Project Lead the Way

Preparing students for the global economy

### Requirements for enrollment Berrien Springs High School 2019-20

APPLICATIONS ARE DUE JANUARY 31, 2020 TO YOUR SCHOOL COUNSELOR:

- Completed Application
- Essay
- Your Teacher Recommendation

#### **PLTW Engineering:** Introduction to Engineering Design

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work. Additional courses will be added in following years to create a four-year sequence.

- Application for the program
- Math teacher recommendation
- Demonstrate competency in math by achieving NWEA math score of 240
- Maintain excellent attendance

#### **PLTW Engineering:** Computer Science and Software Engineering

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation.

- Application for the program
- Math teacher recommendation
- Demonstrate competency in math by achieving NWEA math score of 235
- Maintain excellent attendance

#### **PLTW Biomedical Sciences:** Principles of the Biomedical Sciences

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems. Additional courses will be added in following years.

- Application for the program
- Science teacher recommendation
- Demonstrate competency in math by achieving NWEA math score of 235
- Maintain excellent attendance

## PROJECT LEAD THE WAY AT BSHS!

Student Application for *Project Lead the Way*  
 Berrien Springs High School  
 for 2019-20 (Due January 31, 2019 to Counselor)

Name: \_\_\_\_\_ Age: \_\_\_\_\_ Grade for 19-20 \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ email: \_\_\_\_\_

Career Pathway: \_\_\_ Engineering/Manufacturing/Industrial Technology; \_\_\_ Health Services; \_\_\_ Agriscience;  
 \_\_\_ Human Services; \_\_\_ Business/Management/Marketing/Technology; \_\_\_ Arts & Communication;

Application for: \_\_\_\_\_ Biomedical Sciences \_\_\_\_\_ Engineering \_\_\_\_\_ Computer Science

### 1. **Grades**

	1 <sup>st</sup> sem 7 <sup>th</sup> grade	2 <sup>nd</sup> sem 7 <sup>th</sup> grade	1 <sup>st</sup> sem 8 <sup>th</sup> grade	2 <sup>nd</sup> sem 8 <sup>th</sup> grade	1 <sup>st</sup> sem 9 <sup>th</sup> grade	2 <sup>nd</sup> sem 9 <sup>th</sup> grade	1 <sup>st</sup> sem 10 <sup>th</sup> grade	2 <sup>nd</sup> sem 10 <sup>th</sup> grade
<b>Math</b>								
<b>Science</b>								
<b>English</b>								

### 2. **Test Scores**

	M-STEP 7 <sup>th</sup> Grade	M-STEP 8 <sup>th</sup> Grade	NWEA 8 <sup>th</sup> grade	NWEA 9 <sup>th</sup> grade	NWEA 10 <sup>th</sup> grade
<b>Reading</b>					
<b>Math</b>					
<b>Science</b>	XXXXXXXXXXXXXX				

### 3. **EFFORT**: Rate yourself in the following areas:

Attribute	1	2	3	4
<b>Initiative</b>	I need help and reminders to get started.	I get started without being reminded or prompted to do so.	I can determine what needs to be done on my own. I ask the teacher if I need clarification.	I think of things to do above and beyond what is expected.
<b>Independence</b>	I am dependent on others or I check with the teacher all of the time.	I work independently on the basics.	I can do everything expected of me independently.	I take responsibility for my learning, tracking my own progress and doing everything I can to demonstrate my best.
<b>Collaboration</b>	I need prompting to perform my role in a group.	I can do my basic role in a group, but I don't do everything I could for my group.	I do well in a group and perform my role well, without prompting.	I can see what needs to be done beyond my own role and work to make our group's work the best possible.
<b>Critical Thinking</b>	I need assistance with solving problems.	I can do basic problem-solving required, but struggle with the advanced work.	I solve complex problems as presented.	I go beyond what is expected in solving problems, looking for innovative solutions.
<b>Work Completion</b>	I need reminders to complete work.	I complete and turn in most work.	I complete and turn in all work on time.	I do more than expected and turn everything in on time.

<b>Attitude</b>	It is easy for me to be negative about school.	I am mostly positive.	I am positive and encourage others to be positive.	My positive attitude is contagious and can change others from their negativity.
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4. **ATTENDANCE**

Days Absent 7 <sup>th</sup> grade	Days Absent 8 <sup>th</sup> Grade	Days Absent 9 <sup>th</sup> Grade	Days Absent 10 <sup>th</sup> Grade

5. **ESSAY:** Explain why you are interested in the *Project Lead the Way* program. Please type your essay on a separate page and include with the application.

6. **TEACHER RECOMMENDATION:** Please have your current math teacher (for Engineering or Computer Science) or your current science teacher (for Biomedical Sciences) fill out the teacher recommendation. They will submit the recommendation to the Guidance Counselor directly—you only have to give them the recommendation.

7. **Signatures:**

**Student:** I have read the information about *Project Lead the Way* and am committed to the program. I plan to take a foundational course as one of my electives during the 2018-19 school year and follow-up courses in subsequent years.

\_\_\_\_\_

Student Signature Date

**Parent:** I have read the information about *Project Lead the Way* and support my child's application into the program.

\_\_\_\_\_

Parent Signature Date

Math and Biomedical Careers. Start your future now. Learn by Doing. Solve Mysteries. Investigate Possibilities. Make your World a Better Place. Job-Shadow in Local Companies. Consider Internships. Create an Exciting Senior Project. Make discoveries. Use Great Software. Work Hard. Prove your Hypotheses. Conduct Investigations. Have Fun Learning!

**TEACHER RECOMMENDATION  
PROJECT LEAD THE WAY  
BERRIEN SPRINGS HIGH SCHOOL  
FOR 2010-20**

Student Name: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ Application for Engineering (Current Math Teacher)

\_\_\_\_\_ Application for Computer Science (Current Math Teacher)

\_\_\_\_\_ Application for Biomedical Sciences (Current Science Teacher)

Rate the student in the following areas:

Attribute	1	2	3	4
<b>Initiative</b>	Needs help and reminders to get started.	Gets started without being reminded or prompted to do so.	Can determine what needs to be done on his/her own. Asks the teacher for clarification.	Thinks of things to do above and beyond what is expected.
<b>Independence</b>	Is dependent on others or checks with the teacher all of the time.	Works independently on the basics.	Can do everything expected independently.	Takes responsibility for learning, tracking his/her own progress and doing everything to demonstrate the best.
<b>Collaboration</b>	Needs prompting to perform his/her role in a group.	Can fill basic role in a group, but doesn't do everything he/she could for the group.	Does well in a group and performs role well, without prompting.	Sees what needs to be done beyond his/her role and acts as group leader.
<b>Critical Thinking</b>	Needs assistance with solving problems.	Can do basic problem-solving required, but struggles with the advanced work.	Solves complex problems as presented.	Goes beyond what is expected in solving problems, looking for innovative solutions.
<b>Work Completion</b>	Needs reminders to complete work.	Completes and turns in most work.	Completes and turns in all work on time.	Does more than expected and turns everything in on time.
<b>Attitude</b>	Is usually negative about school.	Is mostly positive.	Is positive and encourages others to be positive.	Positive attitude is contagious to others.

I believe \_\_\_\_\_ will be successful and I recommend this student for the Project Lead the Way program for the 2018-19 school year.

\_\_\_\_\_  
Teacher Signature

\_\_\_\_\_  
Date

Comments: