

# Biomedical Sciences Certification Document 2: Self Assessment

Name of Campus/School  Date Completed

Address

City  State  Zip Code

Building Principal Name  Principal E-Mail

Levels of Assessment	Interpretation of Level
4 - Excellent	Exceeds requirements
3 - Good	Meets requirements. No need for additional technical assistance at this time, although some areas, as indicated, could be improved.
2 - Needs Improvement	Generally fall below requirements. Demonstrates limited effectiveness; additional technical assistance and/or resource utilization is needed for improvement.
1 - Poor or Missing	Evidences little or no effectiveness. A great deal of technical assistance and/or resource utilization would be an immediate need.
N/A - Not Applicable	Does not apply to the program being reviewed.

## I. Program Implementation

### A. Instruction

1.	The most current version of the PLTW™ curriculum is being used.	<input style="width: 100%; height: 20px;" type="text"/>
2.	A balanced and up-to-date selection of relevant resources as recommended by Project Lead The Way, Inc. is provided to meet the instructional needs of students.	<input style="width: 100%; height: 20px;" type="text"/>
3.	Each student is provided with the grading criteria for each project and assignment in advance.	<input style="width: 100%; height: 20px;" type="text"/>
4.	Students are actively engaged in learning by working on relevant projects.	<input style="width: 100%; height: 20px;" type="text"/>
5.	PLTW™ end-of-course exams are being administered to students at the conclusion of each course and scores are reported to PLTW®.	<input style="width: 100%; height: 20px;" type="text"/>
6.	Effective teaching methods are used to enhance the PLTW™ instructional program.	<input style="width: 100%; height: 20px;" type="text"/>
7.	Gender-neutral teaching practices and materials are used for instruction	<input style="width: 100%; height: 20px;" type="text"/>

## B. Student Portfolios and Engineering Notebooks

1.	Student work is available and reflects the progression of skills developed in the PLTW™ course(s).	<input type="checkbox"/>
2.	All students are required to keep laboratory journals.	<input type="checkbox"/>

## C. Software

1.	A current software lease agreement has been signed by a school district official. (provide a copy for the visit).	<input type="checkbox"/>
2.	The current revision of each software package is being used. Record titles and revision level below.	<input type="checkbox"/>

National Instruments: LabVIEW™

Inspiration, Inc.: Inspiration®

## D. Facilities and Equipment

1.	Equipment (including computer hardware), software, tools, and supplies meet or exceed PLTW™ standards.	<input type="checkbox"/>
2.	The space and physical arrangements are conducive to effective instruction.	<input type="checkbox"/>
3.	Considering maximum class enrollments, physical arrangement, furniture, equipment, tools, materials, and supplies in the classroom(s) and laboratories are adequate and accessible for student use.	<input type="checkbox"/>
4.	Students have access to the internet to conduct research and communicate with content advisors and mentors.	<input type="checkbox"/>
5.	Students have telephone access, when necessary, to support curricular activities.	<input type="checkbox"/>

For any score of "2" or below, please provide a brief explanation

## E. Teacher Selection

Describe the criteria used to identify and recruit teachers for PLTW™ courses.

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## F. Course Implementation Schedule:

Course Name	Year to be implemented
Principles of the Biomedical Sciences™ (PBS)	
Human Body Systems™ (HBS)	
Medical Interventions™ (MI)	
Biomedical Innovation™ (BI)	

## II. Professional Development

### A. Names of Counselors on Campus

### Counselor Conference Attendance

A. Names of Counselors on Campus	Counselor Conference Attendance	
	Location	Year

### B.

Names of PLTW™ trained teachers on campus	Area of certification	PLTW™ course(s) currently teaching	PLTW™ STI's attended and year(s)	Participating in ongoing professional development (Virtual Academy or other)

### C. Administration

#### Participation in PLTW™ professional development activities:

1.	Administrators .	<input type="text"/>
1a.	Counselors	<input type="text"/>
2.	Administrators, counselors and teachers work collaboratively to provide continuous improvement to the PLTW™ program.	<input type="text"/>

For any score of "2" or below, please provide a brief explanation

### III. Partnership Team (Documentation to be provided at site visit.)

#### A. Membership

Provide a list of the Partnership Team members that include the following:

- \* Member's Name
- \* Title/Role (must include non school members, i.e. business/industry)
- \* Name of business or organization

#### B. Frequency

Provide copies of the agendas from two previous meetings and dates for the next two meetings.

#### C. Minutes

Provide the minutes of the previous two Partnership Team meetings.

### D. Faculty and Administration Support

1.	Teachers, administrators, and counselors actively engage partnership team members to optimize the operation of the program and to provide continuous improvement.	<input type="text"/>
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For any score of "2" or below, please provide a brief explanation

## IV. Students

### Enrollment Data

		PLTW™ Courses			
Current Year	Building Enrollment	PBS	HSB	MI	BI
Sections Per Year					
<b>A. Gender</b>					
Females					
Males					
<b>B. Race/Ethnicity</b>					
African Americans					
American Indians/ Alaskans					
Asians					
Caucasians					
Hispanics					
Other					
	PLTW Courses Totals				
Total Building Enrollment:					
% School population enrolled in PLTW™ courses		Total PLTW™ Enrollment			
% of Free and Reduced Lunches:					

**C. Selection and Recruitment:**

Describe the process and criteria used to enroll students in the PLTW™ program

**D. Concurrent Mathematics**

Describe the procedures in place to ensure each student is concurrently enrolled in a college preparatory science and mathematics course.

**E. Extra Help**

What types of extra academic help do students have access to?

## F. Retention:

Indicate by gender the number of students who are progressing through the PLTW™ program sequence

	Principles of the Biomedical Sciences			Human Body Systems			Medical Interventions			Biomedical Innovations		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Year 1	<input type="text"/>	<input type="text"/>	<input type="text"/>									
Year 2	<input type="text"/>	<input type="text"/>	<input type="text"/>									
Year 3	<input type="text"/>	<input type="text"/>	<input type="text"/>									
Year 4	<input type="text"/>	<input type="text"/>	<input type="text"/>									

## V. Participation in Data Collection

**Project Lead The Way®** has contracted with a data collection agent to conduct annual assessments of the PLTW™ program. PLTW™ student data is collected through an online registration process with teacher grade input. Long term, the data will be used to determine the success of the PLTW™ program in relation to increasing the number and diversity of high school graduates who successfully pursue careers in engineering and engineering technology.

1. The number of teachers participating in the end of course PLTW™ National Assessment	<input type="text"/>
2. The number of students participating in the end of course PLTW™ National Assessment	<input type="text"/>

Provide a copy of the printed page from the PLTW™ designated data collection agent which shows the schools participation

## VI. Administrative Support

A. Provide a copy of the school district agreement at the site visit.

### B. Facilities and Equipment

1.	The district has provided a laptop computer(s) meeting or exceeding the PLTW™ minimum standards for each PLTW™ trained teacher.	<input type="text"/>
2.	The annual PLTW™ Purchasing Manual is made available to PLTW™ trained teachers and administrators for planning purposes.	<input type="text"/>
3.	Adequate classroom/laboratory space is provided for students to participate in the PLTW™ curriculum.	<input type="text"/>
4.	Students use safety equipment and follow safety rules.	<input type="text"/>
5.	Safety rules are displayed in appropriate places in the classroom/laboratory.	<input type="text"/>
6.	Classroom/laboratory facilities are appropriate for student safety.	<input type="text"/>

For any score of "2" or below, please provide a brief explanation

### B. Funding and Budget

1.	There is funding available for teachers, counselors and administrators to attend PLTW™ professional development.	<input type="text"/>
2.	There is a budget for PLTW™ program operation.	<input type="text"/>
3.	The PLTW™ program budget is prepared with input from the PLTW™ trained teachers.	<input type="text"/>
4.	Plans have been developed for replacing and/or updating, furniture, equipment, and tools and purchasing state-of-the-art technology. Please explain below.	<input type="text"/>

For any score of "2" or below, please provide a brief explanation

### VII. Post Secondary Education

Provide a sample of your science career concentration plan for the site visit.

#### A. Student Plans of Study

1.	There is encouragement for each student to have a written four year plan of study that outlines a coherent sequence of courses on file. The plan is reviewed annually, and revised if needed.	<input type="text"/>
2.	Local and State articulation agreements for two year and four year post secondary options are in place.	<input type="text"/>

For any score of "2" or below, please provide a brief explanation



## VIII. Communication and Outreach

### A. Awareness

1.	The school counselors, administrators, teachers and partnership team members have made the community aware of the program.	<input type="checkbox"/>
2.	Administrators and teachers have informed school faculty of the PLTW™ program.	<input type="checkbox"/>

### B. Recruitment

1.	Students are aware of the opportunity to take PLTW™ classes.	<input type="checkbox"/>
2.	Parents understand the requirements and rigor of the program.	<input type="checkbox"/>
3.	Feeder pattern schools are included in the recruitment process.	<input type="checkbox"/>

### C. Celebration

1.	Student, class and teacher success are recognized.	<input type="checkbox"/>
2.	Plans are in place for a press release announcing the outcome of the visit.	<input type="checkbox"/>

Date document was completed:

School District Name

Address

City  State  Zip Code

Front Office Phone Number  PLTW™ Implementation Year

Name of District Superintendent

District Career/Technical Director:

District Delegate Name:

Delegate E-Mail

Delegate Phone Number

List names and titles of Pre-assessment team members:

Name	Title:
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

If Submit by E-mail fails, please save document and then attach to e-mail to: [certification@pltw.org](mailto:certification@pltw.org)