

**EQUIPMENT NEEDS ASSESSMENT APPLICATION**  
**Fall 2019**

Name of Person Submitting Request:	<b>Mark Hamza</b>
Program or Service Area:	<b>Chemistry</b>
Division:	<b>Science</b>
Date of Last Program Efficacy:	<b>Spring 2016</b>
What rating was given?	<b>Continuation</b>
Equipment Requested	<b>9 Periodic tables 49"x36" on vinyl SBCCD Printing Services</b>
Amount Requested:	<b>\$26 each for a total of \$234.00</b>
Strategic Initiatives Addressed:	<b>Increase Access + Promote Student Success + Provide Exceptional Facilities</b>
Needs Assessment Resources (includes Strategic Initiatives):	<a href="https://www.valleycollege.edu/about-sbvc/campus-committees/academic-senate/program-review/needs-assessment.php">https://www.valleycollege.edu/about-sbvc/campus-committees/academic-senate/program-review/needs-assessment.php</a>

NOTE: To facilitate ranking by the committee, submit separate requests for each item; however, multiple items can be submitted as one request if it is required that the equipment is packaged together.

Replacement ☒ Additional ☒

Are there alternative funding sources? (for example, Department, Budget, Perkins, Grants, etc.)

Yes ☐ NO ☒

If yes, what are they? \_\_\_\_\_

1. Provide a rationale for your request. (Explain, in detail, the need for this equipment.)

Currently, the chemistry department utilizes ten rooms for lecture and six rooms for laboratory instruction for all chemistry courses offered. Out of a total of 16 lecture and lab rooms, four lecture rooms are without a periodic table. All five lab rooms need an updated periodic table for which students can keep up with current developments in chemistry. A periodic table of the above stated dimensions is necessary so that it can be adequately viewed by students across a lab or lecture room. Periodic tables are of significance to a chemistry student's education. Important information regarding the elements, such as atomic weight and chemical properties, etc., can be gained from understanding how this information is organized by the periodic table. Lack of a periodic table, or one of insufficient size, can also pose a problem for instructors who teach a class, utilizing PowerPoint. Instructors who teach the many aspects of a periodic table on PowerPoint slides need to switch between slides on a projector or switch from projector to document camera to show a periodic table as the information is discussed. This uses up time and disrupts the flow of information and results in students having less time to learn the necessary material. As indicated in the 2018-19 EMP under **Improve student success**, it is imperative that this situation be avoided. Also, throughout the semester, as often happens, an instructor may want to intermittently point out information regarding the periodic table which would be of benefit to the students' education. It would be of prime importance if this information could be pointed out

in a quick and effective manner. This could be accomplished if there were an updated periodic table of sufficient dimensions within the lab or lecture room.

2. Indicate how the content of the department/program's latest Efficacy Report and/or current EMP supports this request and how the request is tied to program planning. (*Directly reference the relevant information from your latest Efficacy Report and/or current EMP in your discussion.*)

One of the goals of the department is to expand the offering of classes to allow students to fulfill transfer requirements to UC, Cal State and allied health programs. Thus, the department is reinstating some classes that were cut during the economic downturn and offering more classes in the evening and weekend. Some of these classrooms were not intended to teach chemistry and therefore lack a periodic table. To provide quality education, our facilities need to complement various teaching styles for new and current instructors as best as possible. As indicated in the EMP under **Acquiring resources to ensure rigor of the curriculum**, updated periodic tables of appropriate dimensions, are an effective tool for disseminating pertinent information in the classroom.

3. Indicate any additional information you want the committee to consider (*for example, regulatory information, compliance, updated efficiency, student success data, planning, etc.*).

N/A

4. Indicate any related costs (including any ongoing maintenance or updates) and department/program's plans to support those costs.

Other than replacement of an outdated, damaged, or irreparable periodic table, there are no costs for upkeep.

5. What are the consequences of not funding this equipment?

1.) Disruption of flow of information. 2.) Insufficient use of class time. 3.) Decrease in educational learning opportunity.