



Results of the 2017 Science Survey

Education – Core Content Areas – Accountability Program

The following is a summary of the surveys of local school systems conducted pursuant to House Bill 1227: Education-Core Content Areas-Accountability Program. The information was gathered in the fall of 2017. The 2017 administration of the science survey contained edited questions to better reflect and inform the legislatively mandated areas of focus regarding the progress being made on the implementation of the Next Generation Science Standards (NGSS) within the Local Education Agencies (LEAs): instructional time for science, availability and use of appropriate instructional materials aligned to the NGSS, instructional technology, and teacher certification.

The number of respondents to the surveys:

Grade Band	Teachers	Supervisors	Districts
Elementary	4550	75	
Middle	1538	52	
High	1693	50	
Total	7678	94	24

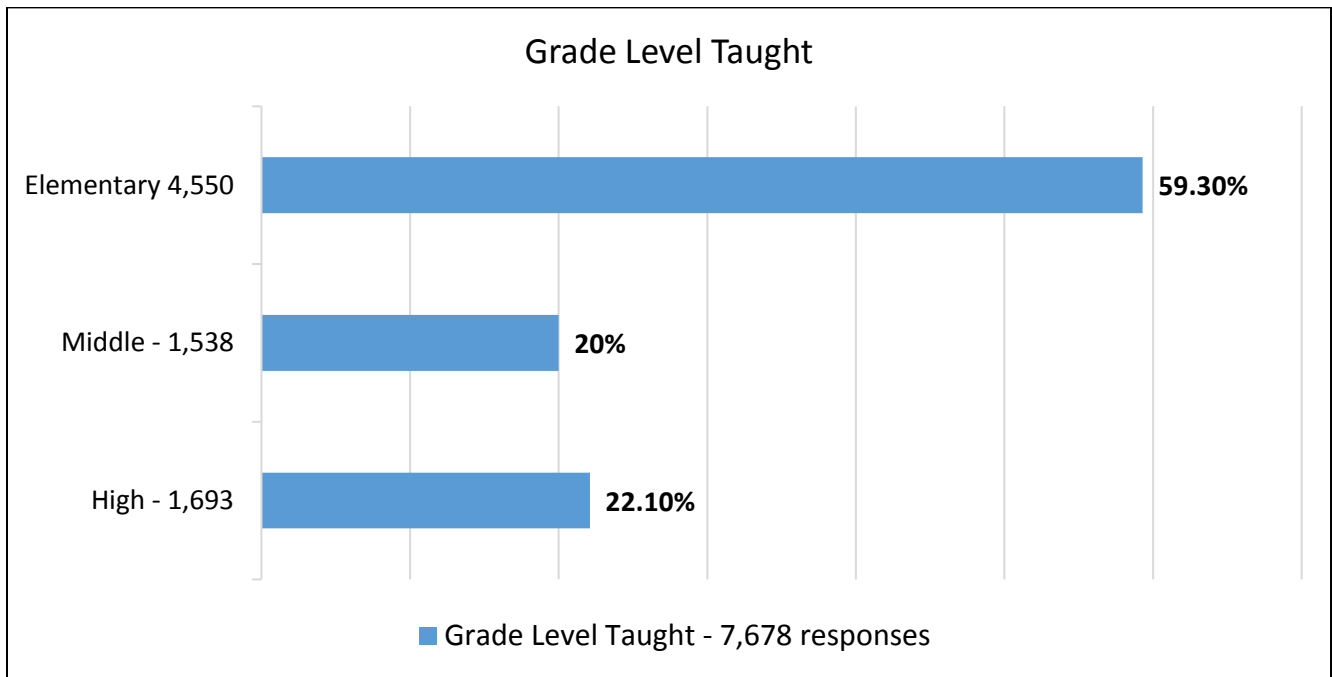
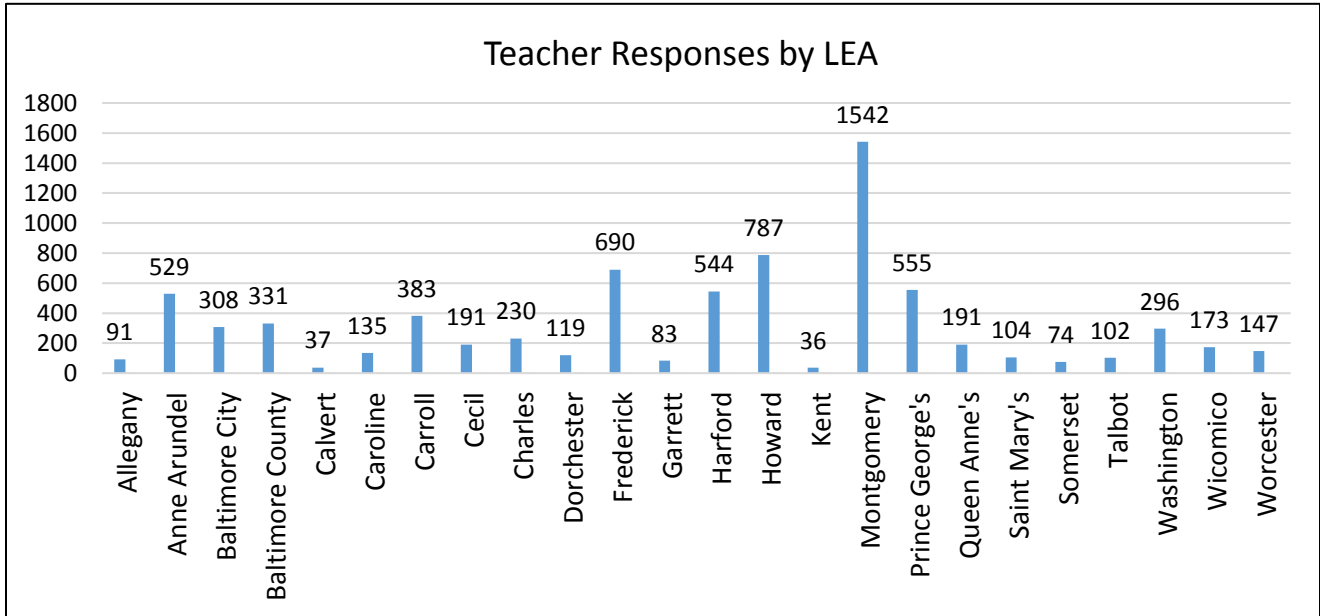
Summary:

The 2017 survey indicates an increase in the number of hours spent on content aligned to NGSS in the science classroom per week. There has also been an increase in resource availability aligned to NGSS. While there remains room for improvement, these indicators are encouraging regarding science instruction and NGSS implementation. Data regarding professional development indicates a continuing need across grade bands. Specific teacher comments suggest overall interest and increased comfort with NGSS for those who have experienced targeted professional development to support 3D instruction. Classes being taught by teachers out of their certification area are still problematic however substantially more classes are taught by teachers certified in the subject.

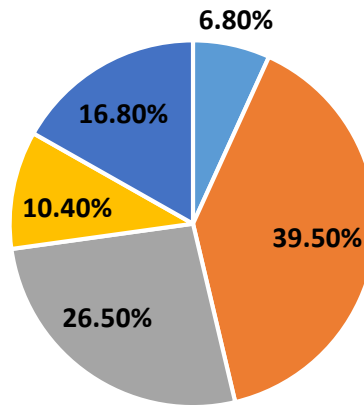


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Summary of Science Teacher Survey

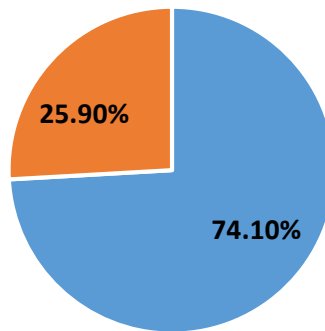


How many hours of instructional time are spent focused on NGSS curriculum in the science classroom per week?



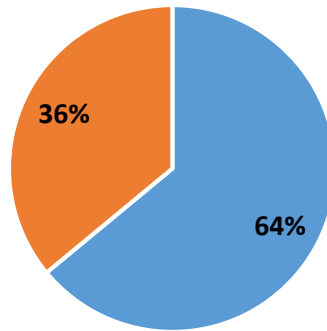
■ Less than one hour ■ 1 - 3 hours ■ 4 - 6 hours ■ 7 - 9 hours ■ Not Applicable

Do your students participate in instructional activities which incorporate the NGSS in a classroom environment as part of their regular science class?



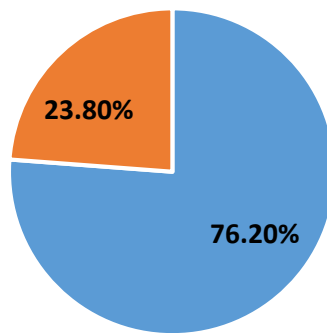
■ Yes ■ No 7,678 responses

Do your students also have experiences which incorporate the NGSS in a laboratory environment in addition to their regular science class?



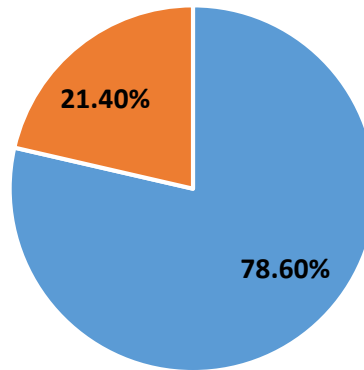
■ Yes ■ No 7,678 responses

Are appropriate resources, such as safety equipment, lab equipment, etc. which incorporate the NGSS available for science instruction in classrooms?



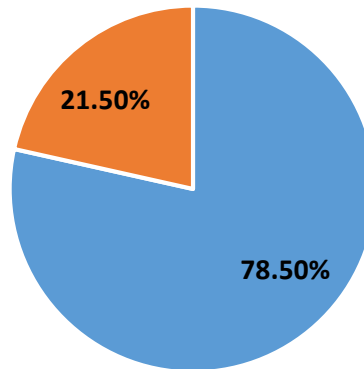
■ Yes ■ No 7,678 responses

Is technology available which incorporates the NGSS for use in science instruction in the classrooms?



■ Yes ■ No 7,678 reponses

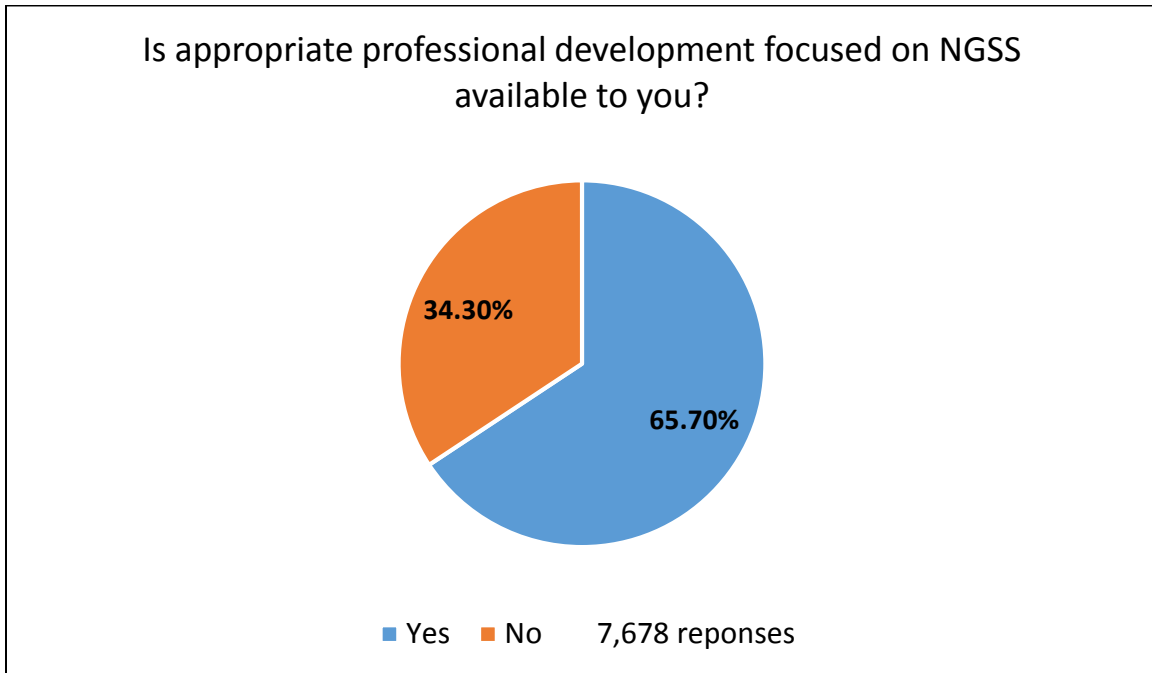
Is available technology which incorporate the NGSS used for science instruction in the classrooms?



■ Yes ■ No 7,678 reponses



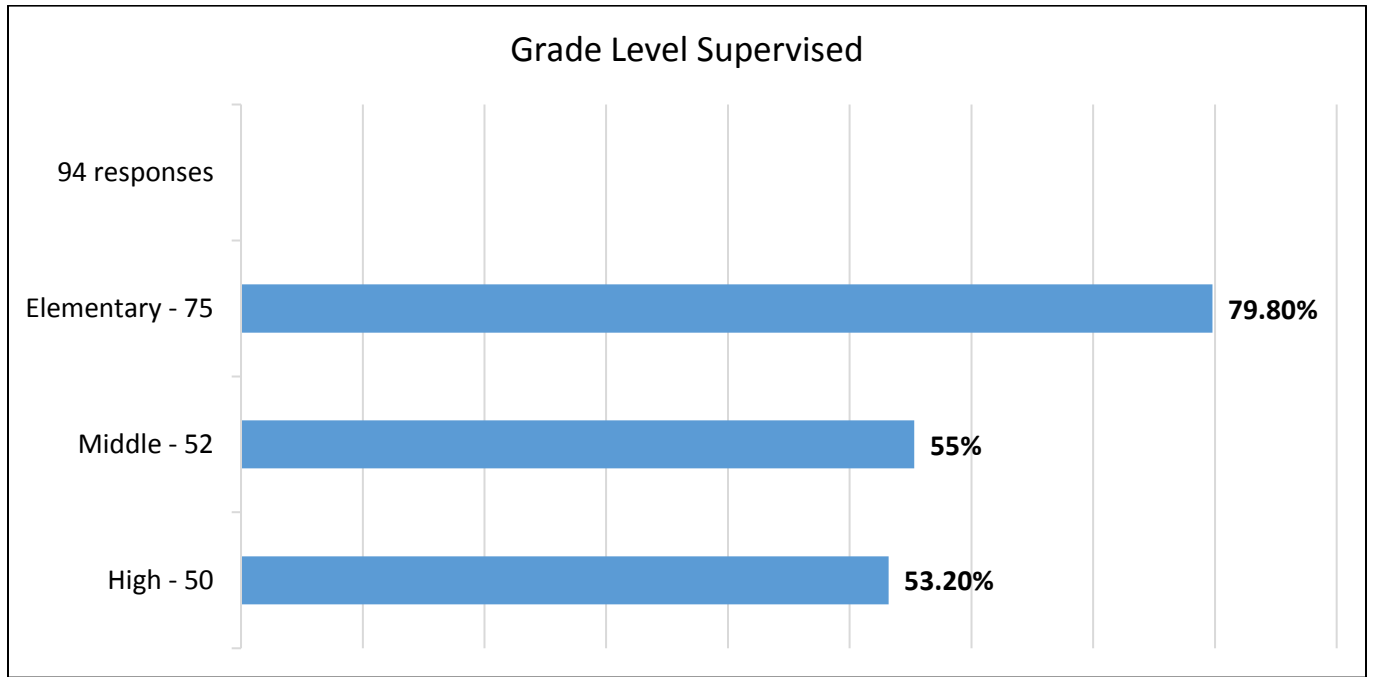
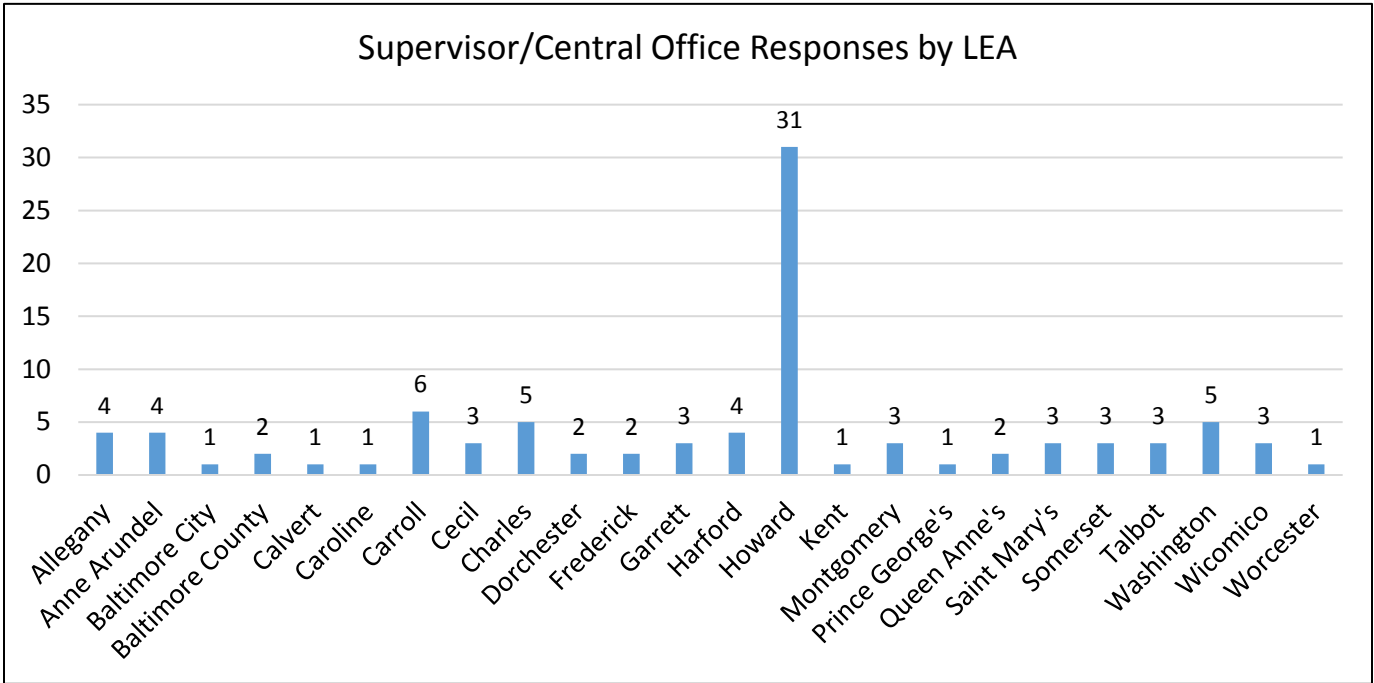
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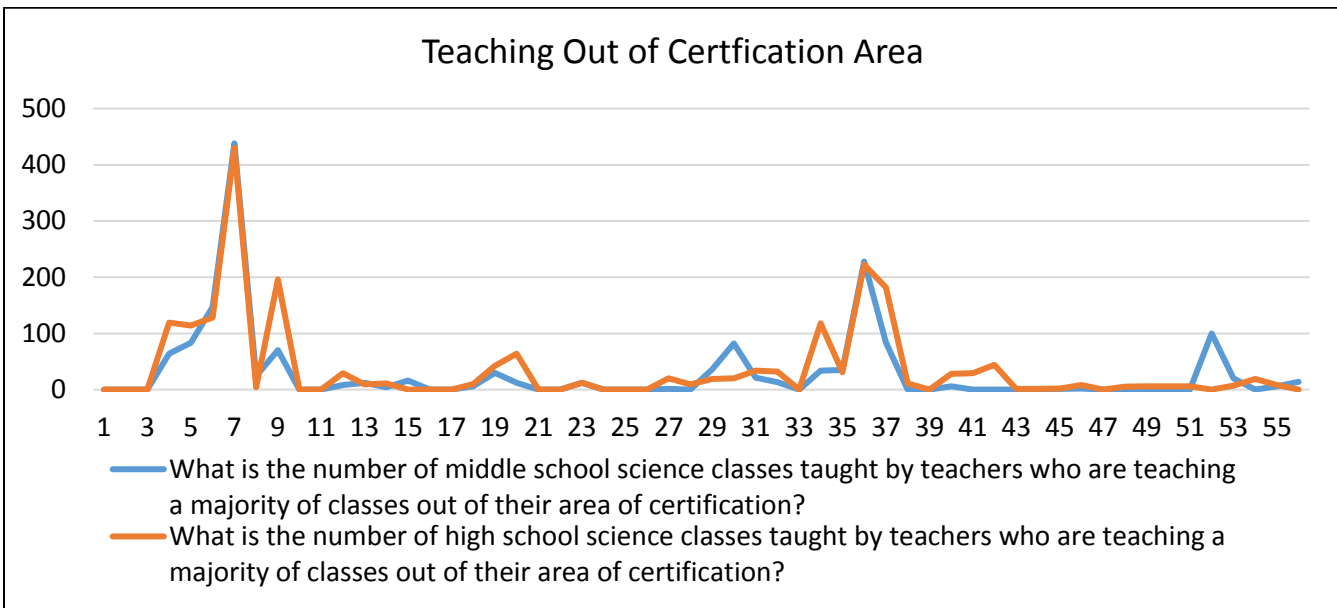
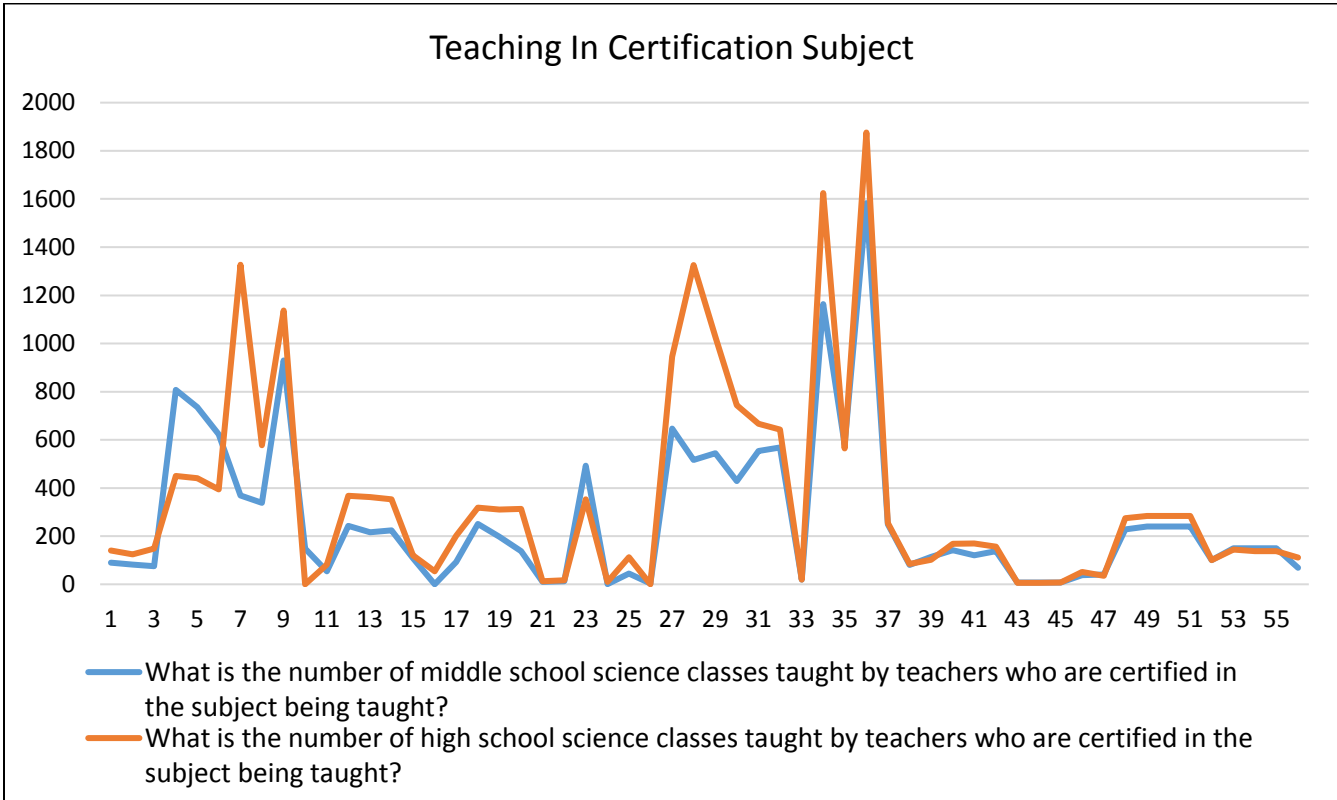
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Summary of Science Supervisor Survey

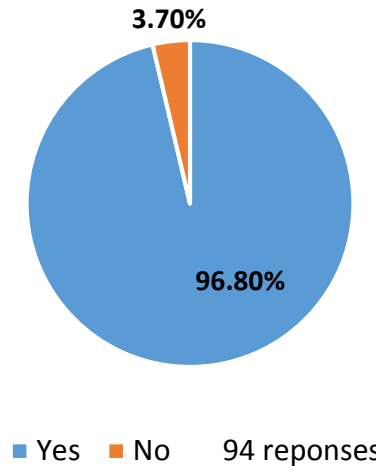




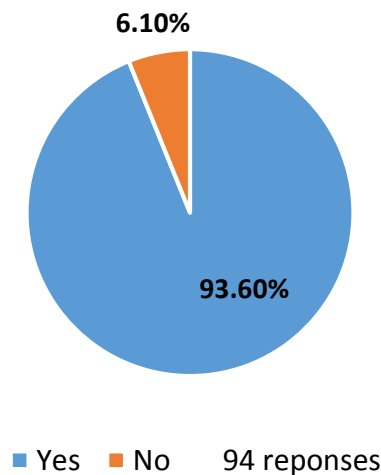
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Are there district-level professional development opportunities focused on the implementation of NGSS for elementary school teachers?



Are there district-level professional development opportunities focused on the implementation of NGSS for middle school teachers?





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