Principal Survey

Introduction
In 2013, the Nevada legislature passed S.B. 345 which established the Advisory Council on Science, Technology, Engineering and Mathematics (STEM), which is charged to "develop a strategic plan for the development of educational resources in the fields of science, technology, engineering and mathematics (STEM) to serve as a foundation for workforce development, college preparedness and economic development in this state." At this time, the Nevada STEM Advisory Council would like your input on STEM education in Nevada's K-12 system. The Advisory Council will use the information collected from this survey to first assess and describe current efforts in STEM education and second, draft recommendations for improving STEM education efforts.

Please note that the survey is completely anonymous and it will be impossible to identify you or your school affiliation. The survey will take approximately fifteen minutes. Before taking this survey, please read the following definition of STEM education so that all answers you provide are based on this particular definition.

STEM Definition
STEM (science, technology, engineering, mathematics, in addition to computer science) education focuses on active teaching and learning, relevant experiences, problem-solving, and critical thinking processes. Nevada STEM education emphasizes the interconnectedness of science, technology, engineering, and mathematics (and computer science) along with their connection to other disciplines. This interconnectedness elevates the capability and proficiency of the industry of Nevada through its workforce and serves as the intellectual and innovative catalyst that propels the economic prosperity of the state.

Classification Information
1. I am a principal at the (select one):
Elementary school level
Middle school level
High school level

2. I have been a principal for (select one):
Less than one year
One to five years
Six to ten years
Eleven to twenty years
More than twenty years

3. I currently am a principal in the following geographic location (select one):
Northern Nevada
Southern Nevada
Rural Nevada

Curricula, Programs, and Online Programs
Curricula, programs, and online programs include those which are commercially available to purchase or use. They may be specifically linked to target standards and/or skills.

4. The majority of the teachers at my school use these specific curricula, programs, and online programs with their students in the classroom or a lab (select all that apply):
Biz town
Compass learning
Cool math
Delta
FOSS
Engineering is elementary
Gateway to technology
Introduction to robotics
Investigations
IXL
Junior achievement
Kahn academy
Lego robotics
Manga high
Math magician
Mathletics
Moby max
Mountain math
Project lead the way
Rocket math
Spatial temporal (ST) math
Study island
Sumdog
Other _____
Other _____
Other _____
Other _____
Other _____

5. Of these specific curricula, programs, and online programs that the majority of the teachers use with their students in the classroom or a lab, I would recommend that other teachers use (select all that apply):
Biz town
Compass learning
Cool math
Delta
FOSS
Engineering is elementary
Gateway to technology
Introduction to robotics

Investigations
IXL
Junior achievement
Kahn academy
Lego robotics
Manga high
Math magician
Mathletics
Moby max
Mountain math
Project lead the way
Rocket math
Spatial temporal (ST) math
Study island
Sumdog
Other _____
Other _____
Other _____
Other _____
Other _____

6. I feel that the current curricula, programs, and online programs that are available to my teachers meet the state standards and the Next Generation Science Standards (select one):
Yes
No
Somewhat: Please explain. _____

7. Teachers at my school are not currently using STEM curricula, programs, and online programs because (select all that apply):
They are not available at my school.
They would have to purchase some materials to use them.
The materials are not high quality for STEM education.
My teachers do not have the training needed to use them.
My teachers do not have the time during the day to use them.
The teachers need to focus on reading, language arts, and math only.
This question does not apply to me – The majority of the teachers at my school are currently using STEM curricula, programs, and online programs.

Activities and Structures
Activities and structures include special days, trips, fairs, and teaching strategies that lend themselves to STEM focused learning.

8. The majority of the teachers at my school use these specific activities or structures with their students in the classroom or a lab (select all that apply):
Banking
Chess

Children's Science Museum Programming (Reno/Las Vegas) (e.g. House Calls, Senses)
Cooperative learning
Desert Research Institute Green Kits
Engineering day (Ecological, Lego, etc.)
Engineering explorations
Engineering Fair
Engineering field trips
Engineering online homework
Environmental leadership camps
Flipped classroom
Flooding assembly
Junior chef
Math day (Pi, Mighty, Mad, Metrics, etc.)
Mathematical explorations
Mathematics Fair
Mathematical field trips
Mathematical online homework
Project based learning classroom
Red Rock Desert/Desert Tortoise programs
Science day (DaVinci, Super, Mad, etc.)
Science explorations
Science Fair
Science and Engineering Fair
Science field trips
Science online homework
STEM day
STEM explorations
STEM Fair
STEM field trips
STEM online homework
Technology day
Technology explorations
Technology Fair
Technology field trips
Technology online homework
Other _____
Other _____
Other _____
Other _____
Other _____

9. Of these specific activities or structures that the teachers use with their students in the classroom or a lab, I would recommend that other teachers use (select all that apply):
Banking
Chess
Children's Science Museum Programming (Reno/Las Vegas) (e.g. House Calls, Senses)

Cooperative learning
Desert Research Institute Green Kits
Engineering day (Ecological, Lego, etc.)
Engineering explorations
Engineering Fair
Engineering field trips
Engineering online homework
Environmental leadership camps
Flipped classroom
Flooding assembly
Junior chef
Math day (Pi, Mighty, Mad, Metrics, etc.)
Mathematical explorations
Mathematics Fair
Mathematical field trips
Mathematical online homework
Project based learning classroom
Red Rock Desert/Desert Tortoise programs
Science day (DaVinci, Super, Mad, etc.)
Science explorations
Science Fair
Science and Engineering Fair
Science field trips
Science online homework
STEM day
STEM explorations
STEM Fair
STEM field trips
STEM online homework
Technology day
Technology explorations
Technology Fair
Technology field trips
Technology online homework
Other _____
Other _____
Other _____
Other _____
Other _____

10. I feel that the current activities or structures that are available to my teachers assist in meeting the state standards and the Next Generation Science Standards (select one):
Yes
No
Somewhat: Please explain _____

11. Teachers at my school are not currently using STEM activities or structures because (select all that apply):
They are not available at my school.
They would have to purchase some materials to use them.
The materials are not high quality for STEM education.
My teachers do not have the training needed to use them.
My teachers do not have the time during the day to use them.
The teachers need to focus on reading, language arts, and math only.
This question does not apply to me – The majority of the teachers at my school are currently using STEM activities or structures.

Clubs, Competitions, and Extracurricular Activities
Clubs, competitions, and extracurricular activities typically occur outside of regular school times and can support STEM education goals, objectives, and/or standards.

12. Teachers at my school host these specific clubs, competitions, or extracurricular activities at the school site (select all that apply):
Bridge building
Chess club
Forensics CSI club
Future city competition
Garden club
Math counts team
Math kangaroo contests
Mathematics Olympiad team
Robotics team
Science bowl team
Science Olympiad team
Zookeeper club
Other _____
Other _____
Other _____
Other _____
Other _____

13. Of these specific clubs, competitions, or extracurricular activities that the teachers host at the school site, I would recommend that other teachers host (select all that apply):
Bridge building
Chess club
Forensics CSI club
Future city competition
Garden club
Math counts team
Math kangaroo contests
Mathematics Olympiad team
Robotics team

Science bowl team
Science Olympiad team
Zookeeper club
Other _____
Other _____
Other _____
Other _____
Other _____

14. I feel that the clubs, competitions, or extracurricular activities that are available to my teachers assist in meeting the state standards and the Next Generation Science Standards (select one):
Yes
No
Somewhat: Please explain _____

15. Teachers at my school not currently hosting STEM clubs, competitions, or extracurricular activities because (select all that apply):
They are not available at my school.
They would have to purchase some materials to use them.
The materials are not high quality for STEM education.
My teachers do not have the training needed to use them.
My teachers do not have the time during the day to use them.
The teachers need to focus on reading, language arts, and math only.
This question does not apply to me – My teachers are currently hosting STEM clubs, competitions, or extracurricular activities.

Equipment, Facilities, and Resources
Equipment, facilities, and resources include the physical items available in the classroom or at the school site that could be used as tools in meeting STEM education goals, objectives, or standards.

16. The majority of teachers at my school use this specific equipment, facilities, and/or resources with their students on a regular basis (select all that apply):
Animal lab
Computer lab
Earth/space science lab
ecybermissions
Engineering lab
eportfolios
Experiment stations
Exploration tables or centers
Gardens
Inflatable planetarium
Life science lab
Mathematics lab

Nutritional center
Observatory
1 to 1 iPads, itouch, ipods
Outdoor learning lab
Paleontology dig station
Physical science lab
Promethean/smart/active boards
Science library and exhibits
Shared ipads, itouch, ipods
Space shuttle simulator lab
STEM lab
Technology lab
Wii lab
Other _____
Other _____
Other _____
Other _____
Other _____

17. Of this specific equipment, facilities, and/or resources that the teachers at my school use with their students on a regular basis, I would recommend that other teachers use (select all that apply):
Animal lab
Computer lab
Earth/space science lab
ecybermissions
Engineering lab
eportfolios
Experiment stations
Exploration tables or centers
Gardens
Inflatable planetarium
Life science lab
Mathematics lab
Nutritional center
Observatory
1 to 1 iPads, itouch, ipods
Outdoor learning lab
Paleontology dig station
Physical science lab
Promethean/smart/active boards
Science library and exhibits
Shared ipads, itouch, ipods
Space shuttle simulator lab
STEM lab
Technology lab

Wii lab
Other _____
Other _____
Other _____
Other _____
Other _____

18. I feel that the current equipment, facilities, and/or resources that are available to the teachers at my school assist in meeting the state standards and the Next Generation Science Standards (select one):
Yes
No
Somewhat: Please explain - _____

19. The teachers at my school are not currently using STEM equipment, facilities, and/or resources because (select all that apply):
They are not available at my school.
They would have to purchase some materials to use them.
The materials are not high quality for STEM education.
My teachers do not have the training needed to use them.
My teachers do not have the time during the day to use them.
The teachers need to focus on reading, language arts, and math only.
This question does not apply to me – The majority of my teachers are currently using STEM equipment, facilities, and/or resources.

20. I am currently working with a community group and/or business to develop STEM _____ (select all that apply):
Activities
Clubs
Competitions
Curricula
Equipment
Programs
Resources
This question does not apply to me – I am not currently working with a community group and/or business.

21. My school _____ have a STEM coordinator.
Does
Does not

22. I would like to see the following STEM curricula, programs, activities, clubs, competitions, equipment, and resources made available to the teachers at my school:
_____
_____
_____

23. This is what the teachers at my school need in order to implement STEM curricula, programs, activities, clubs, and/or competitions:

_____
_____
_____

24. The STEM Advisory Council is charged with developing a strategic plan to improve STEM education (K-16). What curricula, programs, activities, clubs, competitions, equipment, and/or resources are needed to improve and/or expand STEM education in Nevada?

_____
_____
_____

25. Describe how your school is implementing STEM education. Please provide two to three examples.

_____
_____
_____

26. What are some of the STEM curricula, programs, activities, clubs, competitions, equipment, and resources that work well at your school? Are there programs that you would like to see scaled up and made available throughout the state?

_____
_____
_____

27. Is there anything else that you would you like to share with the STEM Advisory Council?

_____
_____
_____

THANK YOU FOR YOUR TIME!