

Internal Draft Document — January 2018

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Community Partnership Manual

**DRAFT
January 2018**

Questions for group:

- 1. Do we want to use “industry” or “business”?**

The subject draft is not to be circulated or used as an official document.

**Prepared by
Nevada STEM Advisory Council
Community Partnership Subcommittee**

Preface

The Community Partnership subcommittee of the Nevada STEM Advisory Council (NSAC) was established in March 2016. The purpose of the subcommittee is to advise the NSAC on issues pertaining to Community Partnerships.

Roles and Responsibilities for the Community Partnership Subcommittee:

1. To articulate the greater benefits for learning through meaningful Community Partnerships.
2. To assist with student engagement activities through community partnerships that provide a variety of learning experiences (e.g., field trips, job shadows, mock interviews, internships).
3. Identify best community partnership practices, and successful models, for productive and meaningful community partnerships.
4. Provide roadmap for how to establish a successful community partnership.
5. To assist and strengthen communications and desired outcomes of the diverse agencies, organizations, operators, and partners committed to improving learning in Nevada.
6. Provide one voice regarding the varied opportunities for Community Partnerships to support and benefit Nevada’s educational system resulting in strengthened student performance.

Relation of the Community Partnership Subcommittee in the NSAC (2017) Strategic Plan:

>>>> FINISH THIS >>>>

Priority 2: Quality and Scope (pg 9)

Goal 1: Improve quality and quantity in schools

Strategy 7: increase number of opportunities and expand

Priority 4: Engagement and Alignment (pg 15)

Goal 2: Increase STEM education coordination

Strategy 3: Incentivize time for teachers

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Nevada STEM Advisory Council Subcommittee – Community Partnerships

Community Partnerships Manual
DRAFT – January 2018

1. INTRODUCTION

1.1 Target Audience

This document was generated to serve business and industry representatives interested in establishing, or improving, community partnerships with formal educators (i.e., schools and classroom teachers).

1.2 How does the Community Partnerships Subcommittee differ from the Informal STEM Learning Environments (ISLE) Subcommittee?

The focus of the ISLE subcommittee is how to define a successful informal learning program, and how that learning occurs. The Community Partnerships subcommittee is focused on how to establish partnerships to support learning, and how to evaluate partnerships to ensure they are meaningful.

1.3 Background

Business and industry leaders in Nevada are increasingly concerned about the lack of a highly skilled pool of workers for their companies. An unforeseen result of the former “No Child Left Behind Act” was that many schools in Nevada reduced or deleted instruction in science, not to mention technology, physical education, and the arts, to meet requirements in math and reading.

Nevada's science scores lags behind the nation. Numerous national reports on Nevada have documented the lack of science and mathematics content knowledge and credential requirements of Nevada's K-8 teachers, resulting in many Nevada teachers who do not have adequate skills for teaching science.

In addition, the adoption of the Nevada Academic Content Standards for Science (NVACSS), derived from the Next Generation Science Standards (NGSS), by the Nevada Department of Education (Feb 2014) reflects the reality that science is so much more than just the rigid Scientific Method and “hypothesis based” science that has historically been taught in schools. The NVACSS allows for integrated teaching of Science, Technology, Engineering, and Mathematic (STEM) disciplines with reading, and encourages the application of practices and knowledge.

Given the challenges of limited qualified teachers and rising expectations, the importance of high-quality Community Partnerships has risen to a new high. The desire for partnerships that allows for the sharing of respective knowledge and the creation of authentic, fun and interesting curriculum is at a premium. Through curriculum that is supported through Community Partnerships students will be able to move through the scientific and engineering practices (that is, the activities scientists and engineers do daily) identified by the National Research Council, the National Science Teachers Association, and the American Association for the Advancement of Science (REF).

The identified practices represent skill sets such as asking questions, collecting and analyzing data, and communicating information, that are used by STEM Professionals. These skill sets are not necessarily

48 the skill sets that traditional educators possess. The blend of specific skills when STEM professionals
49 and classically trained educators collaborate is powerful. Collaboration is necessary to create effective
50 lessons for Nevada’s students, and forging effective and productive community partnerships is a critical
51 step to facilitate the blending of the necessary skill sets.
52

53 Community partnerships draw from a broad range of resources and expertise. Establishing new
54 relationships with entities that are not familiar with the established educational system requires
55 communication, training opportunities, and oversight. To successfully solve the complex challenge of
56 raising student achievement an objective and systematic process should be implemented to continually
57 assess if and how partners are improving learning in Nevada.
58

59 In support of the NSAC, and with a focus on Community Partnerships, this paper will:
60

- 61 • Begin to define the variety of community partnerships and review the critical role of community
62 partnerships in the learning environment (Section 2)
- 63 • Review how academic standards can be used to strengthen community partnerships (Section 3)
- 64 • Provide suggestions for how to establish a community partnership (Sections 4 and 5)
- 65 • Provide a strategy to evaluate a community partnership (Section 6)
- 66

67 **1.4 Established Community Partnership Programs in Nevada**

68

69 Before community partnerships are dissected and defined (below), it is important to recognize that in
70 Nevada there is great diversity regarding established community partnerships and partnership
71 opportunities.
72

73 This document is generic and presents community partnerships from a high-level view and serves as a
74 primer, but is certainly not comprehensive. Community partnerships will be different in each community.
75 Those interested in establishing community partnerships are encouraged to learn from those population
76 centers who have organized relationships or agencies that support partnerships. Four such organizations
77 are highlighted below to provide examples of the breath of community partnerships in Nevada. In
78 addition, reading about these four very diverse examples serves as a primer to the variety of what
79 community partnerships may look like. There is not a “right” or “wrong” community partnership; there is
80 not a one-size-fits-all solution. What is important is that both partners are served, their expectations are
81 met, and Nevada students benefit from the partnership.
82

- 83 • **Connecting Hands: Offering Lifelong Learning Adventures (CHOLLA):** CHOLLA “is a consortium¹
84 of community agencies and the Clark County School District that collaborate to provide
85 opportunities for connecting and extending classroom learning” (www.nvoutdoorkids.org/cholla2).
86 The goals of CHOLLA are “to correlate educational experiences with State Standards, give
87 students direct experiences with the real world, match the educational programs of agencies with
88 school curricula, allow students to interact with professionals and see career opportunities, and

¹ CHOLLA partners include National Atomic Testing Museum, Las Vegas Natural History Museum, Clark County Parks and Recreation, Discovery Children’s Museum, US Forest Service, US Fish and Wildlife Service, Clark County Wetlands Park, Nevada State Parks, National Park Service, Bureau of Land Management, The Planetarium, Shark Reef Aquarium, Secret Garden and Dolphin Habitat, Outside Las Vegas Foundation, City of North Las Vegas, Public Lands Institute, Nevada Department of Wildlife, Springs Preserve, Clark County School District, Southern Nevada Regional Professional Development Program, Southern Nevada Agency Partnership, Black Canyon/Willow Beach River Adventures, Southern Nevada Water Authority, Skydance Studio, Red Rock Canyon Interpretive Association, Airborne Raptors Unlimited, The Neon Museum, The Mob Museum, Las Vegas Inspiring Connections Outdoors, Gilcrease Nature Sanctuary, Nevada Council for History Education, Tortoise Group, University of Nevada Cooperative Extension, Lost City Museum, Bureau of Reclamation, and College of Southern Nevada (source: www.nvoutdoorkids.org/cholla2 on Jan 4, 2018).

89 introduce students to lifelong voluntary self-directed learning". **CHERYL, PLEASE EDIT AND**
90 **ADD YOUR THOUGHTS HERE**

91
92 • **School-Community Partnership Program, Clark County School District:** The mission statement of
93 the School-Community Partnership Program is to, "The mission of the School-Community
94 Partnership Program is to improve academic achievement, foster successful individuals and
95 enrich student experiences by connecting schools with business and community resources
96 (<http://ccsd.net/community/partnership/>)." The Program has been in existence since 1983, and
97 encompasses several programs including Focus School Project, Stay In School Mentoring,
98 Reclaim Your Future Mentoring Project, Professionals and Youth Building a Commitment
99 (PAYBAC), Safe Routes to School, Support a School Program, and numerous curriculum-based
100 programs. **CHERYL, PLEASE EDIT AND ADD YOUR THOUGHTS HERE**

101
102 • **Northwest Career and Technical Academy, Las Vegas, Internships:** The mission and vision of
103 the Northwest Career and Technical Academy is to, "To boldly educate today's learners for
104 tomorrow's challenges by developing advanced skills through unique hands-on experiences in a
105 professional setting, utilizing community partnerships, innovative ideas, and contemporary
106 technologies." Internships are used...**DAVID, PLEASE EDIT AND ADD YOUR THOUGHTS**
107 **HERE...**

108
109 • **Fernley Science, Technology, Engineering, and Mathematics (STEM) Council:** Established in
110 2013, the Fernley STEM Council is a volunteer group of citizens that sponsors the annual Fernley
111 STEM Festival. Once a year the Fernley STEM Festival connects their rural community members
112 to local businesses that practice STEM everyday through an evening of interactive and hands-on
113 activities provided and staffed by the local business people. This event draws over 1,000
114 participants of all age ranges and exposes Fernley to the diversity of STEM in their local
115 community. Past participants included Animal Care Center, Nevada Cement, Nevada Virtual
116 Academy, Nevada State Bank, City of Fernley, Discovery Museum, Lyon County Sheriff
117 Department, North Lyon County Fire Protection District, and others.

118
119
120 **2. THE LEARNING ENVIRONMENT AND THE IMPORTANT ROLE OF COMMUNITY**
121 **PARTNERSHIPS**

122 The learning environment, in its totality, is the path that moves a very important learner (an individual) to a
123 known place they want to go (dreams and goals), throughout their lifetime (Figure 1). It compasses
124 formal education (going to school), informal education (for example, going on a field trip or to a museum),
125 family and spiritual experiences, and general life experiences and those related to on-the-job training.
126 Each of these wheels move independently, but also in concert, to carry a person towards a destination.
127 The hope is that the destination is positive and reflects the individual's potential. However, it is all too
128 often witnessed how one of the wheels may fail an individual and the resulting path is less than desirable.
129 While community partnerships, per se, are not identified in Figure 1, there is an intrinsic-understanding
130 that the community partnerships are there, providing learning opportunities within the stated categories.
131 For example, evidence that can be used to support this assumption is that most students in Nevada have
132 experienced a field trip to a museum or some activity, which is most likely the result of a community
133 partnership.

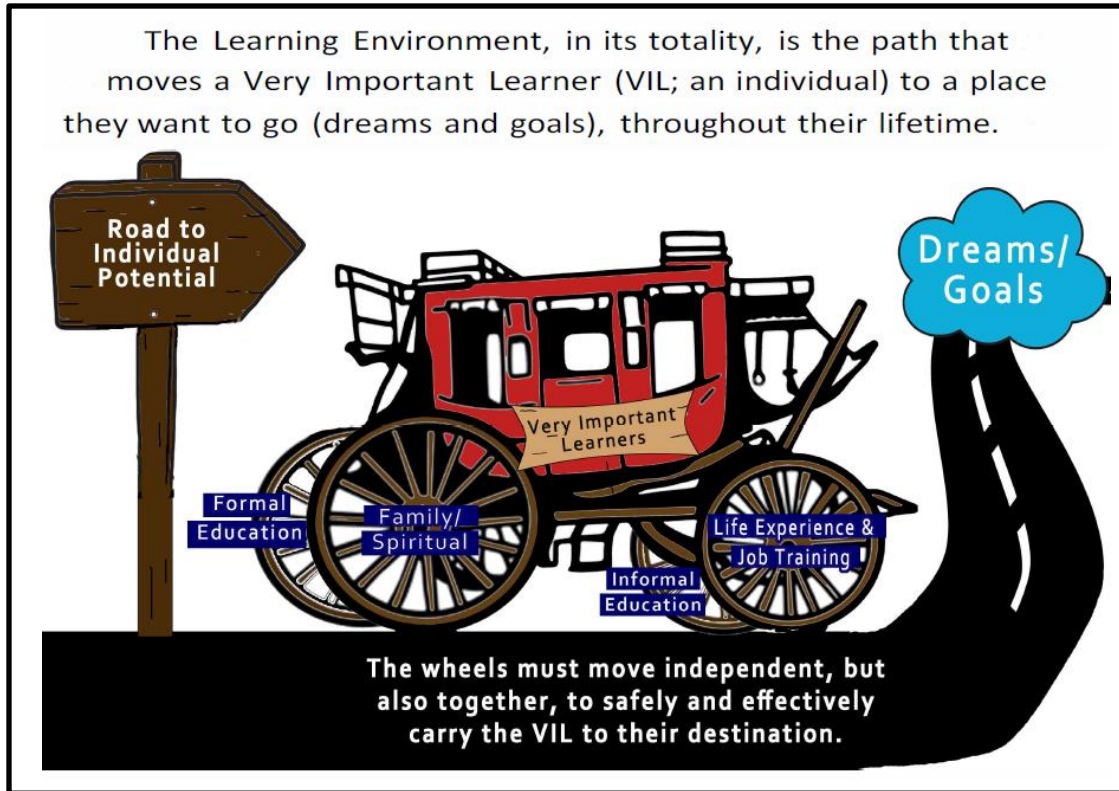
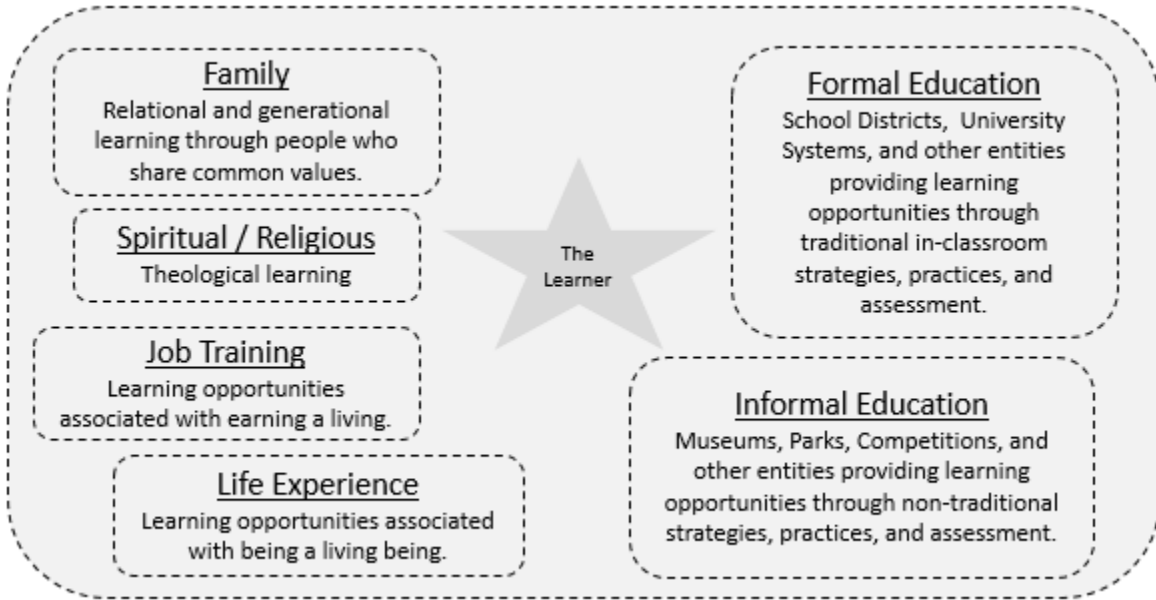


Figure 1. The Learning Environment.

2.1 The “Who”

A community partnership is a relationship between an entity or an individual with a very important learner, usually through or via another established entity (e.g., a school, museum, or employer), that provides or supports learning opportunities intended to move a learner towards a goal. The “who” of community partnerships is a wide net; there are numerous entities that provide learners with opportunities. Figure 2 presents some of the more common entities within the given roles (wheels, i.e. formal education, etc.), however, is in no way is it comprehensive. What Figure 2 does provide however, is a glimpse at the beginning of the complexity associated with defining or describing community partnerships; community partnerships can look very different. To further articulate the complexity of community partnerships so operational definitions can be established the following sections will continue to tease apart the “what”, “why”, “where”, “when”, and “how” to complete the picture.

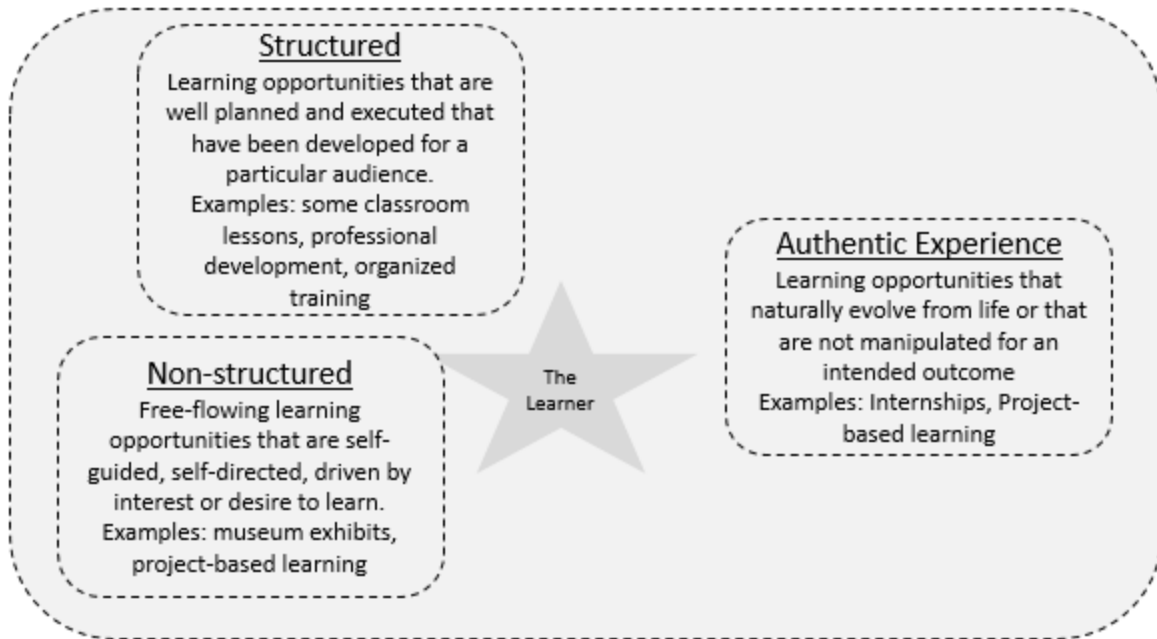
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The “who” can provide learning experiences (the “what”) to learners in a variety of forms (Figure 3). Learning opportunities may be:

- Structured: in a classroom or in a formal education environment.
- Non-structured: free-flowing, self-directed learning
- Authentic: naturally evolved lessons from life

A single entity may provide one, or a combination, of the different types of learning experiences. For example, job training may have structured components (e.g., formal classroom training experiences), as well as non-structured learning experiences that are guided by the need-to-learn, and authentic learning experiences that can only occur while experience is being obtained in real-life scenarios.



198 Figure 3. The “Who” can provide learning experiences (the “what”) to learners in a variety of ways.

199

200 **2.3 The “Why”**

201

202 The “Who” provides or supports opportunities for learning for a variety of reasons, the “why” (Figure 4).

203 For example, some community partnerships are financial relationships which support learning
 204 opportunities, but do not actually provide a learning experience, per se. Whereas, other community
 205 partnerships are driven (established) by federal or state mandates, and funding may or may not be
 206 provided. Some community partners provide materials to be supportive of curriculum. Other community
 207 partners provide experiences through internships or other mechanisms to help expose learners to new
 208 information or to inspire/instill dreams and goals, or to promote future workforce development.

209

210 The “why” can also be multi-dimensional; there are usually several reasons why businesses want to
 211 contribute to learning. There is also the concept of “return on community” that reflects how a business is
 212 giving back to the community. When businesses partner with local schools they can have a positive
 213 impact on their local community by not only providing jobs, but by being actively involved in their
 214 community. Sharing their expertise, improving the future workforce, and inspiring the next generation are
 215 positive outcomes of community partnerships.

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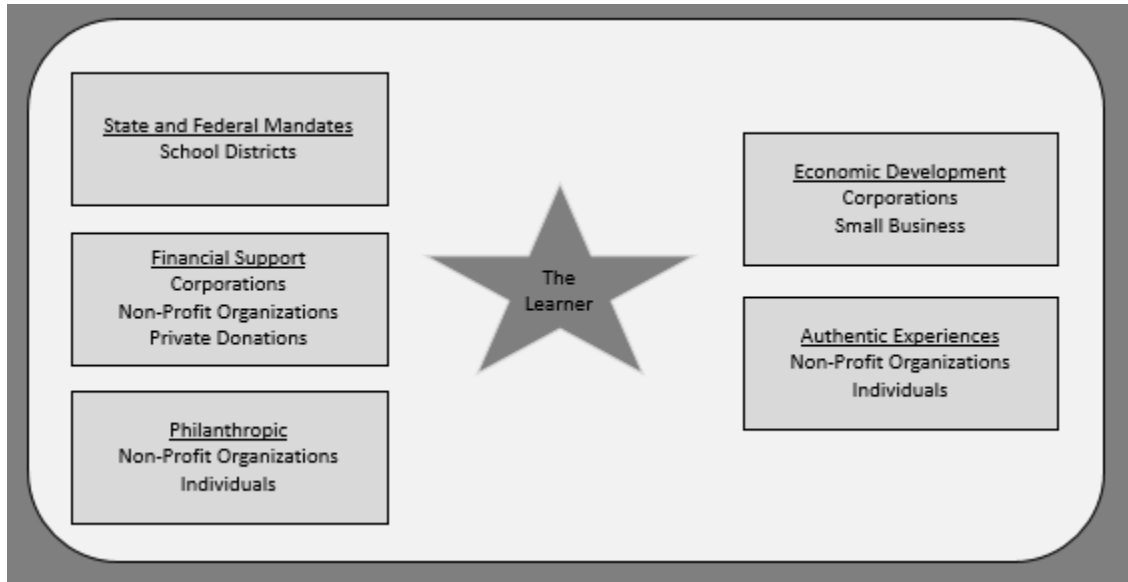


Figure 4. The “Who” provides their opportunities or support for a variety of reasons, the “why”.

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2.4 The “Where”

Community partnership learning opportunities occur in a variety of places (Figure 5). They may be place-based, such as at school, museum, or business. In the 21st century, much of our learning occurs via the virtual world, through the internet or games. Learning also can occur via materials such as books. Other powerful learning experience venues are competitions or theme-based event, such as festivals.

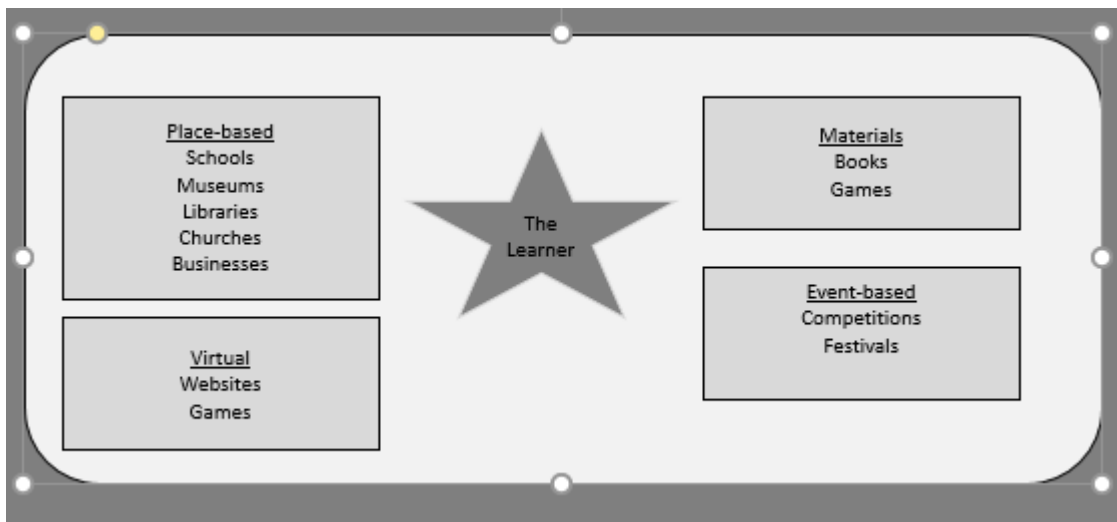


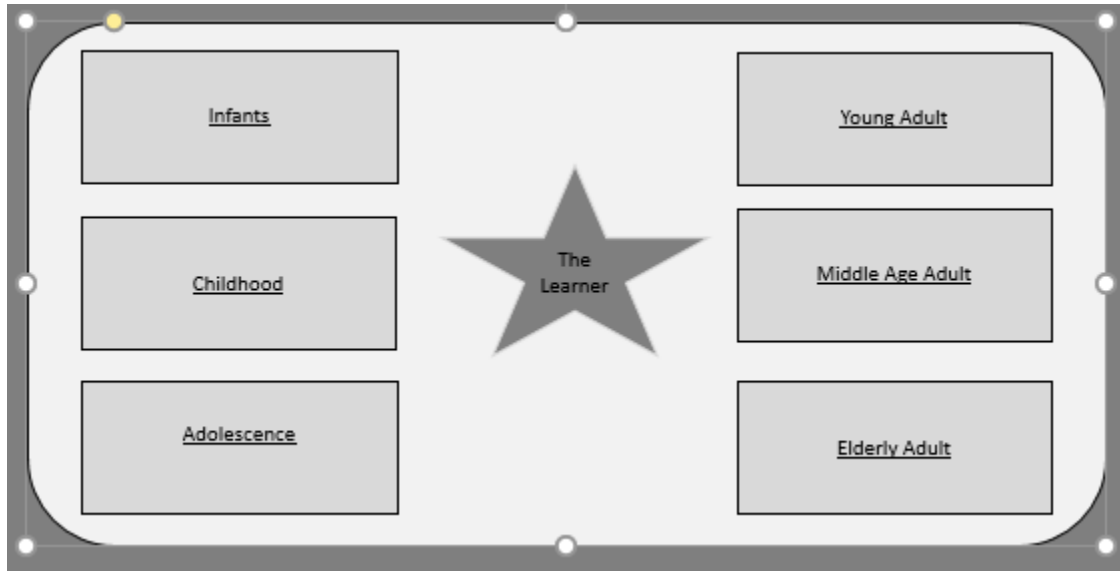
Figure 5. The “Who” provides learning opportunities through many venues.

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235

236 **2.5 The “When”**

237

238 Learning should be occurring throughout a learners’ lifetime (Figure 6). If community partnerships are
 239 limited to “school-age” then there are many years that are not considered.



240

241 Figure 6. The “Who” can reach learners throughout a lifetime.

242

243 **2.6 The “How”**

244

245 Finally, the “how”, or a time commitment, of a community partner to an individual can also vary greatly.
 246 For example, the engagement between a community partner and a learner may be through a special
 247 event, like a science fair. Or, the engagement may be a one-time experience, such as a guest lecture in
 248 a classroom, or a science seminar at a museum. Community partnerships may also be much longer
 249 term, providing mentoring that lasts for months or years.

250

251 **2.7 Operational Community Partnership Types**

252

253 There are numerous types of partnerships, as evidenced by the breakdown of the 5-W’s in the previous
 254 sections. Listed below are some typical partnership types. Partnerships may also be a combinatorial,
 255 meaning that a single partnership encompasses a combination of several types. Clearly identifying the
 256 partnership type is helpful, if for no other reason, for evaluative purposes. The different community
 257 partnership types are intrinsically attached to different expectations, and having “a name” on the
 258 partnership may help minimize unmet expectations.

259

260 **2.7.1 Financial Partnership**

261

262 Financial partners contribute money to an entity. The money may be used for a variety of purposes, but
 263 the partnership is exclusively monetary; there is no expectation that services, such as expertise or
 264 materials, will be provided.

265

266 2.7.2 Material or Resource Partnership

267
268 Material or resource partners contribute materials or resources (supplies) to an educational entity.
269

270
271 2.7.3 Special Event Partnership

272
273 Special event partners serve at/for a particular event or host an event. Special events can be science
274 fairs, science festivals, competitions (e.g., Lego League or Future Cities). A special event may also be a
275 lecture or lecture series. Special event partners provide expertise, for example judges, or space, such as
276 meeting space. Special event partners can also provide monetary support, in conjunction with other
277 contributions.

278
279 2.7.4 Content Knowledge Partnership

280
281 A content knowledge partners provides expertise on a subject. For students, the outcome is usually in
282 the form of a classroom lecture or field trip. For teachers, the outcome may be professional development
283 on a subject or topic, or special training.

284
285 2.7.5 Career Awareness Partnership

286
287 A career awareness partner provides the opportunity for students to be exposed to careers. Activities
288 such as career fair participation, mock interviews, internships, and field trips to businesses would align
289 with a career awareness partnership.

290
291 2.7.6 Mentor Partnership

292
293 A mentor partner supports for an extended period of time and supports students (or teachers) in the
294 production of a product or in support of a project.

295
296 2.7.7 Internship Partnership

297
298 Working together, educators and business leaders can work together to provide real-life experiences to
299 students. Student internships are supervised work experiences, either part-time or full-time, and can be
300 paid or unpaid. See Appendix C for internship brochures from Clark County School District.

301
302 **3. UNDERSTANDING ACADEMIC STANDARDS TO STRENGTHEN COMMUNITY PARTNERSHIPS**

303 Educators are familiar with academic standards; however, business and industry partners generally know
304 very little about academic standards. Students benefit when partners understand the role of academic
305 standards. An understanding of academic standards minimizes frustrations and helps to ensure
306 alignment of activities and opportunities to academic standards, which then strengthens the academic
307 performance of Nevada's students and teachers.

308
309 **3.1 What are Academic Standards?**

310
311 Academic standards are the benchmarks or expectations for which learners are expected to learn.
312 Academic standards generally are composed of practices, those things learners are expected to be able

313 to “do”, and content, the “knowledge” of a subject. Each academic discipline has “standards”. Standards
314 are the basis of curriculum, or what is taught in a classroom.

315
316 The Common Core State Standards were drafted by educational and business experts including teachers
317 at local levels. The Common Core State Standards provide clear and consistent guidelines for what every
318 student should know and be able to do in math and English language arts from kindergarten through 12th
319 grade. English language arts includes reading, writing, speaking, and listening. The standards are
320 designed to ensure that students are prepared to enter entry-level careers, freshman-level college
321 courses, and workforce training programs (Common Core 2018).

322
323 The Next Generation Science Standards are the coordinated effort of 26 Lead-State Partners, the
324 National Research Council, the National Science Teachers Association, and the American Association for
325 the Advancement of Science. These standards identify the science all K-12 students should know upon
326 completion of high school (NGSS 2018). The Next Generation Science Standards also includes
327 engineering and the engineering design process.

328
329 The Nevada Department of Education (NDE) adopted the Common Core State Standards in 2010, and
330 the Next Generation Science Standards in 2013. Nevada also has academic content standards for
331 computer science, visual arts, music, theater, dance, and media arts. The academic content standards
332 for Nevada schools can be found on the Nevada Department of Education website.

333
334

335 **3.2 Why should businesses care about Academic Standards?**

336
337 Business leaders should be interested in academic standards because the academic standards dictate
338 what is being taught in the classroom, and therefore impacts the preparedness of the workforce and
339 competition at local, national and international levels. When a business is invited into a classroom, the
340 visit will be maximized if the business-person can support the educator in the teaching of the academic
341 standards, not just entertain the students. Students need to see real-world connections to the things they
342 are learning, and business partners can help provide these opportunities for students.

343
344 In addition, Nevada students and teachers benefit greatly from opportunities to practice academic
345 language. Academic language are words and terms not used in casual or informal language situations.
346 Examples of academic language include terms such as, summarize, evaluate, classify, contrast,
347 compare, demonstrate, and estimate. Academic language is paramount within the academic standards,
348 and is used in testing and assessment situations, but too often not practiced in our classrooms. The
349 authentic experiences that community partnerships provide can bolster to the use of academic language
350 in the classroom.

351
352

353 **3.3 Correlating Academic Standards to Workforce Skills**

354 Educators are highly trained individuals in teaching students, however, they do not necessarily have
355 experiences outside classrooms and schools or understand how the knowledge is transferred or applied
356 in workplaces. Therefore, business partners are critical for helping educators correlate academic
357 standards into workforce skills. For example, a high school biology teacher can teach about
358 photosynthesis, mitosis and meiosis, and genetics. But, it is a perhaps a greenhouse owner, and a
359 genetic counselor that can help the students see how what they are learning applies to the real-world.
360 Real-world connections provide the answers to the age-old question of “why we have to learn this?”.

361

362 As educators and business leaders begin to work together, there will be an improvement in the
363 appreciation and understanding of the challenges and limitations associated with creating a productive
364 member of society. Then, working together, the “developer” and the “user” can work together to
365 overcome some the challenges and limitations so that there is an improved workforce ready and willing to
366 serve their community when the K-12 education system “delivers” into the world.
367

368 **4. HOW DO WE FORM A COMMUNITY PARTNERSHIP? INDUSTRY TO EDUCATION**

369 This section provides an overview of the steps and considerations to establish a community partnership,
370 from industry reaching out to education.

371
372 **STEP 1: Determine Your Partnership Interest**

373
374 Based on the different types of partnerships (Section 2.8), decide what type of partnership best suits your
375 business and prepare a listing of what you are willing to offer.

376
377 **STEP 2: Consider how you are going to handle sensitive information and safety hazards**

378
379 Inviting students and teachers into your workplace may provide unique challenges regarding trade
380 secrets and/or safety. Considering these potential sticky-situations beforehand will help you be better
381 prepared for visitors.

382
383 If people are not coming to you, but you are sending employees out to represent your company, consider
384 providing guidelines for what can and cannot be shared.

385
386
387 **STEP 3: Research your local area to determine if there is a formal Community Partnership Office
388 for your local school district.**

389
390 STEP 2a: If yes, contact them and...**CHERYL ADD SOME THOUGHTS HERE...**

391
392 STEP 2b: If no, contact the school of interest directly by...**...THOUGHTS?**

393
394
395 **STEP 4: Select Who to Send or Have Represent Your Business**

396 Young, energetic and dynamic representatives are usually who you want to send to represent your
397 business.

398
399 Topics to consider: Youth versus experience...how to balance that? Use of technology?

400
401
402 **STEP 5: Prepare for Engagement**

403
404 Connect with the teacher ahead of time and discuss expectations! Learn about what academic standards
405 are associated with your invitation. Ask about academic language and work to incorporate it into your
406 presentation/experience. Learn about what exposure the students will have had before your time with
407 them, and how your visit will be followed-up in the classroom. This information can be used to help tie
408 your presentation to previous knowledge or expectations.

409
410 LEAH...thoughts on this? On our last call you mentioned having a “tips” section, so this is where this
411 came from...

412
413 Things to consider:
414 • Provide time for practice and dry-run. If you are doing an activity, if possible, practice with kids!!
415 You will be amazed at how differently kids and adults think, process information, and move.
416 What makes sense to you, or what you can easily do with your adult dexterity may not be true for
417 kids.

418
419 Key characteristics for a successful classroom presentation are:
420 • Be a model for students by being familiar with laws, school and classroom rules and
421 expectations.
422 • Interact with students on a personal level – have informal conversations relevant to what
423 students are learning or expected to know and be able to do.
424 • Not afraid to go “off script” and allow the engagement to evolve where the students take it
425 • Prepared and organized (may include contact information, handouts, etc)

426
427 Key characteristics for a successful field-trip experience are:
428 • Develop and maintain a schedule
429 • Have a back-up plan for unexpected events (like weather and transportation)
430 • Be sure everyone in the group can hear the presenter. For example, you may need to invest in
431 portable audio-enhancement equipment.
432 • Be sure everyone can see what you are talking about. If a tour, walk through with a group ahead
433 of time and be sure that a group can fit and see.
434 • Use written signs to reinforce information.

435
436 Key characteristics for... interview??? What other experiences do we want to provide tips for?

437
438
439
440 **STEP 6: Evaluate the Experience**

441
442 Importance of evaluation:
443 • of teacher/school you served – was it a fit? Repeat this experience? Lessons learned?
444 • Of presenter –
445 • Get student feedback, too often we don't students what they thought!

446
447
448 DAVID AND CHERYL – add thoughts about evaluation here...

449
450 Section 6 provides insights on evaluation tools.

451
452

453 **5. HOW DO WE FORM A COMMUNITY PARTNERSHIP? EDUCATION TO INDUSTRY**

454 Schools in search of industry partners will benefit from this section. It provides an overview of the steps
455 and considerations to establish a community partnership.

456 **STEP 1: Clearly identify your need.**

457 **STEP 2: Determine what type of community partnership will fill your need.**

458 **STEP 3: Research your local area to determine if there is a formal Community Partnership Office**
459 **for your local school district.**

460 STEP 3a: if yes, **CHERYL...PLEASE ADD**

461 STEP 3b: if no, solicit through...??? Parents? Professional Organizations? STEM Ambassador
462 Registration?

463 **STEP 4: Prepare for Engagement**

464 Connect with speaker ahead of time! Determine how you think standards align to what they can present.
465 Consider the opportunities for team teaching for this presentation – how to increase the numbers of
466 students opportunities to learn from this experience?

467 Plan and then prepare classroom extensions to prepare students and follow-up

468 **STEP 6: Evaluate the Experience**

469 Importance of evaluation:

- 470 • of your role? Pre-teaching and follow-up? Do it again? Lessons learned?
- 471 • Of presenter –
- 472 • Get student feedback, too often we don't students what they thought!

473 **DAVID AND CHERYL – add thoughts about evaluation here...**

474 Section 6 provides insights on evaluation tools.

475 **6. RUBRIC FOR PARTNERSHIP EVALUATION**

476 This section will

- 477 • sets up generic criteria for a successful relationship
 - 478 ○ Link relationships to standards (reinforces what is happening in the classroom?)
 - 479 ○ Evidence of student learning
 - 480 ○ Evidence of cost-benefit relationship
- 481 • gets at the data that will need to be collected and how it can be used to make decisions.

APPENDIX A

REFERENCES

Nevada STEM Advisory Council (NSAC). 2017. Advisory Council on Science, Technology, Engineering, and Mathematics - STEM Strategic Plan 2017. Nevada Governor's Office of Science, Innovation, and Technology (OSIT). Carson City, Nevada.

Free Dictionary. Electronically accessed December 20, 2016 at www.encyclopedia.thefreedictionary.com

APPENDIX B

Established Community Partnerships within Nevada (as of XXXX)

Per the NSAC Strategic Plan (Priority 4, Goal 2, Strategy 4) this list of established Community Partnerships is provided to increase STEM education, workforce development and economic development coordination and cooperation.

HOW TO BEST ARRANGE? By partnership type? By county? Info to include?

County	School / Education Entity Partner or Coordinating Office	Industry Partner	Contact Person
Statewide	Nevada STEM Coalition – STEM Ambassador Program	varies	BT
Carson City			
Churchill			
Clark	School-Community Partnership Program 4601 W. Bonanza Road Las Vegas, NV 89107 702-799-6560		Cheryl
	Future Cities	???	Pom
Douglas			
Elko			
Esmeralda			
Eureka			
Humboldt			
Lander			
Lincoln			
Lyon			
Mineral			
Nye			

Pershing			
Storey			
Washoe			
White Pine			

APPENDIX C

Add real world examples...David's brochure...

GLOSSARY

Acronyms/Abbreviations

NDE

Nevada Department of Education

NSAC

Nevada STEM Advisory Council

NVACS-S

Nevada Academic Content Standards - Science

Operational Definitions

Stakeholder: An individual or group or organization who is impacted by a process or decision, but not necessarily actively involved [Source.....]

Cooperator: An entity actively partner involved in a process or decision-making activity and/or sharing of resources. Synonym: Partner [Source.....]

Collaboration: an open and inclusive process, a communication tool used by groups to engage a broad array of diverse entities that come together to find solutions for issues/problems as they _____ [Source.....]

Community Partnership: A relationship between an entity or an individual with a very important learner, usually through or via another established entity (e.g., a school, museum, or employer), that provides or supports learning opportunities intended to move a learner towards a goal.

Learning Environment: In its totality, the path that moves a very important learner (a person) to a known place they want to go (dreams and goals), throughout their lifetime.

Partnership: shared values, shared goals, and active contribution [Source.....] understand desired outcomes and federal and state accountability elements for students and schools.

Provider: [Source.....]

Formal Education: Education occurring inside a traditional school setting [Free Dictionary]

Informal Education: Education (Learning) outside of a traditional school setting. This includes **homeschooling**, mass media, museums, libraries, zoos, after-school groups and other community-based and cultural institutions. [Free Dictionary] field trips? Excursions around schools and classrooms?