SC STEM Regional Advisory Board Meeting

October 9, 2017 2-4pm

Valley High School Room 1505

Present: Derry, Meyerholtz, Holmen, Garrett

Absent: Arbuckle, Bontrager, Haage, Hensen, McCarthy, Pargmann, Sieck, Singleton, Volp, Wigeland

1. Welcome by Derry
2. Monitoring Report Overview for the State of Iowa STEM Scale-Up Program Highlights
3. We’ll use the data to drive goals and priorities for the year.
4. Awareness: lower awareness with lower education level, lower income.
5. Areas of growth: Proficiency of students in 2014-16 are lower than the 2011-2013. This might be because of the current unlined-up standards with what is tested. Among 11th grade students.
6. Proficiency in science on the Iowa Assessments has declined most among students in the 11th grade who are African-Americans, from 60% in 2011-2013 to 49% in 2014-16.
7. ACT scores are on average of 5 points lower among students who are African-American and average of 3 points lower for Hispanic.
8. Kids who participate in STEM have greater achievement and greater interest in STEM

Sarah’s biggest take-aways

1. Job growth will be in the areas of health care, computer/math, business/economics
2. Scale-Up participation
3. Skews to boys
4. 80 percent of student are white
5. Hispanic correlations increasing
6. African-American correlations decreasing
7. Computer/Tech and Engineering have lower participation rates of girls; SCI and Math is much closer, but still more boys
8. Goal Setting 2016-17
9. Our priorities included
10. Those who had NOT received funding in the past
11. Low socio-economic status and minority reach
12. Parent outreach
13. Areas of Discussion: Goal Setting 2017-18
14. Prioritize deeper experiences for high-need populations: Scale-Ups, Festivals, and BEST
15. Define who is high-need: no college, low socio-economic, diversity, rural
16. Prioritize business/teacher partnership with stipend for participating
17. Prioritize rural, as they are often also low socio-economic reach
18. Prioritize personal visits to rural districts, over electronic; use STEM festivals to make relationships in those communities.
19. Work on evaluation and follow-through for festivals.
20. Work on consistency of measurement. How can we set something in place to get data back: Externships, Scale-Ups have it. Festivals don’t have a focus.
21. What are the outcomes of the festivals? How are we measuring those outcomes?
22. Continue to reach out to under-represented populations AND find get data on festivals
23. Consider and Educator Make-n-Take for Scale-Ups.
24. STEM Day at the Capitol – invite the public; provide a virtual offering.
25. Use new mapping data to look at geographic areas.
26. Define what deeper experiences look like.
27. Parent Reach—Increase in opportunities for parents to engage with their students in STEM together. Coupling with non-STEM events. Maybe partner with other festivals and events: professional games, the art festival, cultural celebrations
28. Goal Setting: Priorities to Move Forward 2017-18
29. Measure engagement for stakeholders in high-need populations after they engage in festivals.
30. Improve the measurement of festival experiences.
31. Expand parent outreach: attend parent-teacher conferences, other festivals.
32. How will we measure success?
33. Updates
34. This year, we’ll have an expert in educational standards on every evaluation team.
35. Scale-Up budget: we had money come back for 1 Scale-Up. Extra $6,000 in festival budget right now. Consider how to use the money.
36. South Tama discussion and to-do list:
37. send a template of the email
38. Help with one or two of the contacts
39. Flyer, press release, social media
40. Coach to sustain in future years.
41. Do board members have interest in a Mega Meeting in November? Would be for divided into area you represent. Answer: Yes, if homogeneous grouping takes place.
42. Next meeting:
43. Nov. 17 Mega Meeting! (takes place of Nov. 27 2-4pm regional meeting)