## Appendix 10

## Nebraska Homework Gap Survey Results

## Survey Gauges Impact of Homework Gap on Students, Teachers

In order to better gauge the impact of the homework gap on teachers and students in Nebraska, a survey was disseminated via e-mail to 21,443 Nebraska teachers July 2019. Nearly 7,000 $(6,919)$ teachers responded for a response rate of $32 \%$.

The survey found:

- Over three-fourths (77\%) of teachers agreed that if all students had broadband internet access at home, it would positively impact student learning/achievement.
- Nearly half of teachers (48\%) agreed that the absence of home internet access for some students affects the level or amount of homework assigned.
- Most teachers report using digital resources for a minority of their homework assignments, with $64 \%$ of respondents indicating that less than $25 \%$ of their homework assignments are dependent on digital or internet-based resources.
- Overall, $37 \%$ of teachers estimated that $21 \%$ to greater than $40 \%$ of students do not have home internet access.

Most teachers (90\%) reported that accommodations are made to address students' lack of home internet access. The accommodations cited included:

- Providing more class time to complete homework assignments (55\%)
- Providing some students with printed materials that otherwise would be internet-based (41\%)
- Providing before-school and after-school time to complete homework assignments. (33\%)
- Informing families about community locations where free Wi-Fi is available 27\%
- Assigning less homework overall (26\%)
- Allowing more days for students to complete their homework assignments (26\%)
- Placing less emphasis on homework for students' overall grades (20\%)
- Other (13\%)
- Lending cellular hotspots to students for home internet access (3\%)

Teacher estimates of the proportion of students not having home internet access varied by ESU and community size.

The percent of teachers estimating that the percent of students lacking home internet access was $21 \%$ or greater increased with the size of the community, with $45 \%$ of those teaching in communities of

25,000 or larger estimating that at least

Figure 1
Teacher Estimates of \% of Students without Home
Internet Access
By Community Size

$21 \%$ of students lacked home internet access. (See Figure 1 and Table 1.)

Table 1
Teacher Estimates of \% of Students without Home Internet Access By Community Size

| Size of Community | $\mathbf{0 - 2 0 \%}$ | $\mathbf{2 1 - 4 0 + \%}$ |
| :---: | :---: | :---: |
| $<2,500$ | $72 \%$ | $\mathbf{2 8 \%}$ |
| $2,500-9,999$ | $66 \%$ | $34 \%$ |
| $10,000-24,999$ | $60 \%$ | $40 \%$ |
| 25,000 or above | $55 \%$ | $45 \%$ |
| Total | $63 \%$ | $37 \%$ |

Figure 2
Teacher Estimates of \% of Students without Home Internet By ESU


■ 0-20\% - 21-40+\%

The percent of teachers estimating that at least $21 \%$ of students lacked home internet access by ESU ranged from a low of 23\% in ESU 11 to a high of $65 \%$ in ESUs 19. (See Figure 2 and Table 2.)

Table 2
Teacher Estimates of \% of Students without Home Internet Access
By ESU

| ESU | $\mathbf{0 - 2 0 \%}$ | $\mathbf{2 1 - 4 0 + \%}$ |
| :---: | :---: | :---: |
| ESU 1 | $52 \%$ | $48 \%$ |
| ESU 2 | $62 \%$ | $38 \%$ |
| ESU 3 | $75 \%$ | $25 \%$ |
| ESU 4 | $70 \%$ | $30 \%$ |
| ESU 5 | $62 \%$ | $38 \%$ |
| ESU 6 | $76 \%$ | $24 \%$ |
| ESU 7 | $70 \%$ | $30 \%$ |
| ESU 8 | $69 \%$ | $31 \%$ |
| ESU 9 | $70 \%$ | $30 \%$ |
| ESU 10 | $62 \%$ | $38 \%$ |
| ESU 11 | $77 \%$ | $23 \%$ |
| ESU 13 | $61 \%$ | $39 \%$ |
| ESU 15 | $72 \%$ | $28 \%$ |
| ESU 16 | $61 \%$ | $39 \%$ |
| ESU 17 | $71 \%$ | $29 \%$ |
| ESU 18 | $59 \%$ | $41 \%$ |
| ESU 19 | $35 \%$ | $65 \%$ |
| Non-Response | $64 \%$ | $36 \%$ |
| Total | $63 \%$ | $37 \%$ |



# Nebraska Homework Gap Survey: Summary Report August 22, 2019 

Prepared by

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## Background

This summary report has been prepared in support of the Nebraska Department of Education's partnership with the Nebraska Rural Broadband Task Forces' Homework Gap Subcommittee to conduct a survey of Nebraska public PreK-12 teachers. The purpose of this brief questionnaire is to help determine the degree to which the absence of students’ home internet is influencing the instructional environment.

## Contributors

This report was prepared by the following researchers at the Office of Data, Research and Evaluation at the Nebraska Department of Education:

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## Procedures

The anonymous survey was administered to Nebraska teachers as determined by the "Position Assignment Code" submitted via the Nebraska Student and Staff Record System (NSSRS). Specifically, teachers were defined as having teaching positions with the maximum FTE for the first agency ID listed from 2018-2019 database The population list was generated for teachers from all public and state-operated districts. Emails were obtained for all survey participants via NDE's Education Administration Email List, the NDE Teacher Certification Database, or school websites. All efforts were made to obtain valid email addresses for those selected to be survey participants, however, if a valid email was not available the participant was removed from the sample.
The survey was administered electronically using the Qualtrics web application. The survey consisted of both multiple choice and open-ended response questions. There were a total of 12 questions. Surveys were disseminated via an email message (see Appendix B.) from Nebraska Office of the CIO/NITC, Education I.T. Manager, Tom Rolfes on July 9th, 2019 followed pre-notice to the Superintendents on July $8^{\text {th }}, 2019$. Two additional emails were sent on July $16^{\text {th }}$ and July $23^{\text {rd }}, 2019$ to serve as reminders to complete the survey if they had not done so already. Data collection was closed on the morning of July 30th, 2019. Below is a table showing participant response rates.

Table 1. Response Rate

| Population size | Valid Emails | Responses | Response rate |
| :---: | :---: | :---: | :---: |
| 21,473 | 21,443 | 6,919 | $32.26 \%$ |

## Results

This section will display some of the results from the Homework Gap survey given to Nebraska public school teachers. For a full descriptive tables for survey questions please see Appendix A. Participants were asked a number of community level questions so that survey responses could be disaggregated to show any discrepancies or patterns between groups. These differences are of a descriptive nature and further analysis is needed to determine if any of the discrepancies are statistically significant. Please note that these community level questions were self-reported by the participant and no effort was made to verify the accuracy of the responses.

1. The proportion of students do not have internet access at home to complete homework: Disaggregated by the size of the community (Question 5 vs. 9 cross tabulation)
a. Frequency table

| Q5 and 9 | $0-10 \%$ | $11-20 \%$ | $21-30 \%$ | $31-40 \%$ | More than <br> $40 \%$ | Non- <br> Response | Total |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $<2,500$ | 873 | 689 | 292 | 153 | 150 | 13 | 2170 |
| $2,500-9,999$ | 404 | 327 | 198 | 101 | 76 | 4 | 1110 |
| $10,000-24,999$ | 198 | 194 | 109 | 74 | 76 | 2 | 653 |
| 25,000 or above | 940 | 698 | 460 | 346 | 524 | 18 | 2986 |
| Total | 2415 | 1908 | 1059 | 674 | 826 | 37 | 6919 |

b. Percentile

| Q5 and 9 | $0-10 \%$ | $11-20 \%$ | $21-30 \%$ | $31-40 \%$ | More than $40 \%$ | Non-Response |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $<2,500$ | $40.2 \%$ | $31.8 \%$ | $13.5 \%$ | $7.1 \%$ | $6.9 \%$ | $0.6 \%$ |
| $2,500-9,999$ | $36.4 \%$ | $29.5 \%$ | $17.8 \%$ | $9.1 \%$ | $6.8 \%$ | $0.4 \%$ |
| $10,000-24,999$ | $30.3 \%$ | $29.7 \%$ | $16.7 \%$ | $11.3 \%$ | $11.6 \%$ | $0.3 \%$ |
| 25,000 or above | $31.5 \%$ | $23.4 \%$ | $15.4 \%$ | $11.6 \%$ | $17.5 \%$ | $0.6 \%$ |
| Total | $34.9 \%$ | $27.6 \%$ | $15.3 \%$ | $9.7 \%$ | $11.9 \%$ | $0.5 \%$ |

2. The proportion of students do not have internet access at home to complete homework by ESU (Question 6 vs. 9 cross tabulation)
a. Frequency table

| Q6 and 9 | $0-10 \%$ | $11-20 \%$ | $21-30 \%$ | $31-40 \%$ | More than <br> $40 \%$ | Total |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| ESU 1 | 117 | 103 | 70 | 32 | 104 | 426 |
| ESU 2 | 85 | 106 | 60 | 41 | 15 | 307 |
| ESU 3 | 711 | 353 | 158 | 97 | 100 | 1419 |
| ESU 4 | 63 | 52 | 26 | 9 | 14 | 164 |
| ESU 5 | 48 | 78 | 36 | 28 | 13 | 203 |
| ESU 6 | 146 | 93 | 42 | 21 | 12 | 314 |


| ESU 7 | 120 | 112 | 55 | 20 | 24 | 331 |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| ESU 8 | 118 | 105 | 52 | 28 | 20 | 323 |
| ESU 9 | 96 | 89 | 35 | 18 | 25 | 263 |
| ESU 10 | 213 | 165 | 106 | 59 | 70 | 613 |
| ESU 11 | 71 | 56 | 19 | 12 | 8 | 166 |
| ESU 13 | 86 | 122 | 62 | 40 | 32 | 342 |
| ESU 15 | 27 | 34 | 16 | 5 | 3 | 85 |
| ESU 16 | 70 | 64 | 36 | 22 | 29 | 221 |
| ESU 17 | 34 | 20 | 14 | 7 | 1 | 76 |
| ESU 18 | 212 | 178 | 117 | 85 | 67 | 659 |
| ESU 19 | 149 | 152 | 137 | 141 | 274 | 853 |
| Non-Response | 49 | 26 | 18 | 9 | 15 | 117 |
| Total | 2415 | 1908 | 1059 | 674 | 826 | 6882 |

b. Percentile

| Q6 and 9 | $0-10 \%$ | $11-20 \%$ | $21-30 \%$ | $31-40 \%$ | More than $40 \%$ |
| :---: | ---: | ---: | ---: | ---: | ---: |
| ESU 1 | $27.5 \%$ | $24.2 \%$ | $16.4 \%$ | $7.5 \%$ | $24.4 \%$ |
| ESU 2 | $27.7 \%$ | $34.5 \%$ | $19.5 \%$ | $13.4 \%$ | $4.9 \%$ |
| ESU 3 | $50.1 \%$ | $24.9 \%$ | $11.1 \%$ | $6.8 \%$ | $7.0 \%$ |
| ESU 4 | $38.4 \%$ | $31.7 \%$ | $15.9 \%$ | $5.5 \%$ | $8.5 \%$ |
| ESU 5 | $23.6 \%$ | $38.4 \%$ | $17.7 \%$ | $13.8 \%$ | $6.4 \%$ |
| ESU 6 | $46.5 \%$ | $29.6 \%$ | $13.4 \%$ | $6.7 \%$ | $3.8 \%$ |
| ESU 7 | $36.3 \%$ | $33.8 \%$ | $16.6 \%$ | $6.0 \%$ | $7.3 \%$ |
| ESU 8 | $36.5 \%$ | $32.5 \%$ | $16.1 \%$ | $8.7 \%$ | $6.2 \%$ |
| ESU 9 | $36.5 \%$ | $33.8 \%$ | $13.3 \%$ | $6.8 \%$ | $9.5 \%$ |
| ESU 10 | $34.7 \%$ | $26.9 \%$ | $17.3 \%$ | $9.6 \%$ | $11.4 \%$ |
| ESU 11 | $42.8 \%$ | $33.7 \%$ | $11.4 \%$ | $7.2 \%$ | $4.8 \%$ |
| ESU 13 | $25.1 \%$ | $35.7 \%$ | $18.1 \%$ | $11.7 \%$ | $9.4 \%$ |
| ESU 15 | $31.8 \%$ | $40.0 \%$ | $18.8 \%$ | $5.9 \%$ | $3.5 \%$ |
| ESU 16 | $31.7 \%$ | $29.0 \%$ | $16.3 \%$ | $10.0 \%$ | $13.1 \%$ |
| ESU 17 | $44.7 \%$ | $26.3 \%$ | $18.4 \%$ | $9.2 \%$ | $1.3 \%$ |
| ESU 18 | $32.2 \%$ | $27.0 \%$ | $17.8 \%$ | $12.9 \%$ | $10.2 \%$ |
| ESU 19 | $17.5 \%$ | $17.8 \%$ | $16.1 \%$ | $16.5 \%$ | $32.1 \%$ |
| Non-Response | $41.9 \%$ | $22.2 \%$ | $15.4 \%$ | $7.7 \%$ | $12.8 \%$ |
| Total | $35.1 \%$ | $27.7 \%$ | $15.4 \%$ | $9.8 \%$ | $12.0 \%$ |

3. The proportion of homework assignment based on digital resource: Based on Majority of students using district owned computer devices (Question 7 vs. 8 cross tabulation)

| Q7 and 8 | Frequency |  |  |  | $\%$ |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | Yes | No |  | Non- <br> Response | Yes | No | Non- <br> Response |
| Up to $25 \%$ | 1413 | 2955 | 2 | $32.3 \%$ | $67.6 \%$ | $0.0 \%$ | 4370 |
| $25-50 \%$ | 644 | 387 | 2 | $62.3 \%$ | $37.5 \%$ | $0.2 \%$ | 1033 |
| $50-75 \%$ | 582 | 169 |  | $77.5 \%$ | $22.5 \%$ |  | 751 |
| $75-100 \%$ | 49 | 6 |  | $89.1 \%$ | $10.9 \%$ |  | 55 |
| $100 \%$ | 490 | 119 |  | $80.5 \%$ | $19.5 \%$ |  | 609 |
| Total | 3178 | 3636 | 4 |  |  |  | 6818 |

4. Types of instructional accommodations to address students' lack of home internet access: Based on Majority of students using district owned computer devices (Question 7 vs. 11 cross tabulation)

| Q7 and 11 | Frequency |  |  | \% |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Yes | No | Non- <br> Response | Yes | No | Non- <br> Response |  |
| 1 | 58 | 92 |  | 38.7\% | 61.3\% |  | 150 |
| 2 | 53 | 38 |  | 58.2\% | 41.8\% |  | 91 |
| 3 | 65 | 173 |  | 27.3\% | 72.7\% |  | 238 |
| 4 | 24 | 42 |  | 36.4\% | 63.6\% |  | 66 |
| 5 | 202 | 285 |  | 41.5\% | 58.5\% |  | 487 |
| 6 | 100 | 142 |  | 41.3\% | 58.7\% |  | 242 |
| 7 | 8 |  |  | 100.0\% | 0.0\% |  | 8 |
| 8 | 50 | 60 |  | 45.5\% | 54.5\% |  | 110 |
| 9 | 116 | 446 | 1 | 20.6\% | 79.2\% | 0.2\% | 563 |
| 10 | 205 | 468 |  | 30.5\% | 69.5\% |  | 673 |
| 5,6 | 103 | 102 |  | 50.2\% | 49.8\% |  | 205 |
| 5,6,8 | 108 | 50 |  | 68.4\% | 31.6\% |  | 158 |
| 1,5,6,8 | 97 | 33 |  | 74.6\% | 25.4\% |  | 130 |
| 2,5,6,8 | 81 | 49 |  | 62.3\% | 37.7\% |  | 130 |
| 1,2,5,6,8 | 83 | 45 |  | 64.8\% | $35.2 \%$ |  | 128 |
| 5,8 | 56 | 54 |  | 50.9\% | 49.1\% |  | 110 |

[^0]5. The types of instructional accommodations to address students' lack of home internet access: Disaggregated by the proportion of homework assignment based on digital resource (Question 8 vs. 11 cross tabulation)

## a. Frequency table

| Q8 and 11 | Up to 25\% | 25-50\% | $50-75 \%$ | 75-100\% | 100\% | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Families are informed about community locations where free Wi - Fi is available | 112 | 12 | 11 | 1 | 11 | 147 |
| I allow more days (longer duration) for students to complete their homework assignments | 63 | 20 | 6 |  | 1 | 90 |
| I assign less homework overall | 187 | 21 | 17 | 1 | 9 | 235 |
| I place less emphasis on homework for students' overall grades | 51 | 7 | 5 |  | 3 | 66 |
| I provide more class time to complete homework assignments | 344 | 77 | 34 | 3 | 28 | 486 |
| Some students are provided printed materials that otherwise would be Internet-based | 160 | 33 | 19 | 2 | 26 | 240 |
| The school lends cellular hotspots to students for home Internet access | 3 | 3 | 1 |  | 1 | 8 |
| The school provides beforeschool and after-school time to complete homework assignments | 75 | 17 | 9 |  | 6 | 107 |
| Other | 474 | 19 | 14 | 5 | 13 | 525 |
| I do not make any accommodations | 557 | 39 | 30 | 1 | 31 | 658 |

## b. Percentile

| Q8 and 11 | Up to 25\% | $25-50 \%$ | $50-75 \%$ | $75-100 \%$ | $100 \%$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Families are informed about <br> community locations where <br> free Wi-Fi is available | $76.2 \%$ | $8.2 \%$ | $7.5 \%$ | $0.7 \%$ | $7.5 \%$ |
| I allow more days (longer <br> duration) for students to <br> complete their homework <br> assignments | $70.0 \%$ | $22.2 \%$ | $6.7 \%$ | $0.0 \%$ | $1.1 \%$ |
| I assign less homework overall | $79.6 \%$ | $8.9 \%$ | $7.2 \%$ | $0.4 \%$ | $3.8 \%$ |
| I place less emphasis on <br> homework for students' overall <br> grades | $77.3 \%$ | $10.6 \%$ | $7.6 \%$ | $0.0 \%$ | $4.5 \%$ |
| I provide more class time to <br> complete homework <br> assignments | $70.8 \%$ | $15.8 \%$ | $7.0 \%$ | $0.6 \%$ | $5.8 \%$ |
| Some students are provided <br> printed materials that otherwise <br> would be Internet-based | $66.7 \%$ | $13.8 \%$ | $7.9 \%$ | $0.8 \%$ | $10.8 \%$ |
| The school lends cellular <br> hotspots to students for home <br> Internet access | $37.5 \%$ | $37.5 \%$ | $12.5 \%$ | $0.0 \%$ | $12.5 \%$ |


| The school provides before- <br> school and after-school time to <br> complete homework <br> assignments | $70.1 \%$ | $15.9 \%$ | $8.4 \%$ | $0.0 \%$ | $5.6 \%$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Other | $90.3 \%$ | $3.6 \%$ | $2.7 \%$ | $1.0 \%$ | $2.5 \%$ |
| I do not make any <br> accommodations | $84.7 \%$ | $5.9 \%$ | $4.6 \%$ | $0.2 \%$ | $4.7 \%$ |

6. The proportion of homework assignment based on digital resources: Disaggregated by subject areas of teaching (Question 4 vs. 8 cross tabulation)

## a. Frequency table

| Q4 and 8 | Up to $25 \%$ | $\begin{aligned} & 25- \\ & 50 \% \end{aligned}$ | $\begin{gathered} 50- \\ 75 \% \end{gathered}$ | $\begin{gathered} 75- \\ 100 \% \end{gathered}$ | 100\% | Non- <br> Response | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mathematics | 478 | 99 | 71 | 5 | 79 | 2 | 734 |
| Science | 259 | 132 | 102 | 9 | 69 | 1 | 572 |
| Social Studies | 158 | 115 | 91 | 6 | 88 | 1 | 459 |
| English/Language Arts | 592 | 236 | 169 | 3 | 120 | 9 | 1129 |
| Fine/Performing Arts | 258 | 49 | 26 | 6 | 19 | 5 | 363 |
| Health and Physical Education | 161 | 43 | 23 | 2 | 31 | 4 | 264 |
| World Languages | 99 | 37 | 42 | 1 | 21 | 1 | 201 |
| Business/Technology | 62 | 36 | 49 | 9 | 76 |  | 232 |
| Industrial Technology/Agriculture | 66 | 34 | 27 | 2 | 17 |  | 146 |
| Elementary (All Subjects) | 1790 | 151 | 65 | 1 | 19 | 49 | 2075 |
| Special Education | 230 | 39 | 43 |  | 17 | 17 | 346 |
| Other | 217 | 62 | 43 | 11 | 53 | 12 | 398 |
| Total | 4370 | 1033 | 751 | 55 | 609 | 101 | 6919 |

## b. Percentile

| Q 4 and 8 | Up to <br> $25 \%$ | $25-50 \%$ | $50-75 \%$ | $75-100 \%$ | $100 \%$ | Non- <br> Response |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Mathematics | $65.1 \%$ | $13.5 \%$ | $9.7 \%$ | $0.7 \%$ | $10.8 \%$ | $0.3 \%$ |
| Science | $45.3 \%$ | $23.1 \%$ | $17.8 \%$ | $1.6 \%$ | $12.1 \%$ | $0.2 \%$ |
| Social Studies | $34.4 \%$ | $25.1 \%$ | $19.8 \%$ | $1.3 \%$ | $19.2 \%$ | $0.2 \%$ |
| English/Language Arts | $52.4 \%$ | $20.9 \%$ | $15.0 \%$ | $0.3 \%$ | $10.6 \%$ | $0.8 \%$ |
| Fine/Performing Arts | $71.1 \%$ | $13.5 \%$ | $7.2 \%$ | $1.7 \%$ | $5.2 \%$ | $1.4 \%$ |
| Health and Physical Education | $61.0 \%$ | $16.3 \%$ | $8.7 \%$ | $0.8 \%$ | $11.7 \%$ | $1.5 \%$ |
| World Languages | $49.3 \%$ | $18.4 \%$ | $20.9 \%$ | $0.5 \%$ | $10.4 \%$ | $0.5 \%$ |
| Business/Technology | $26.7 \%$ | $15.5 \%$ | $21.1 \%$ | $3.9 \%$ | $32.8 \%$ | $0.0 \%$ |
| Industrial <br> Technology/Agriculture | $45.2 \%$ | $23.3 \%$ | $18.5 \%$ | $1.4 \%$ | $11.6 \%$ | $0.0 \%$ |
| Elementary (All Subjects) | $86.3 \%$ | $7.3 \%$ | $3.1 \%$ | $0.0 \%$ | $0.9 \%$ | $2.4 \%$ |
| Special Education | $66.5 \%$ | $11.3 \%$ | $12.4 \%$ | $0.0 \%$ | $4.9 \%$ | $4.9 \%$ |
| Other | $54.5 \%$ | $15.6 \%$ | $10.8 \%$ | $2.8 \%$ | $13.3 \%$ | $3.0 \%$ |
| Total | $63.2 \%$ | $14.9 \%$ | $10.9 \%$ | $0.8 \%$ | $8.8 \%$ | $1.5 \%$ |

7. The proportion of homework assignment based on digital resources: Disaggregated by educator's level of proficiency with educational technology (Question 2 vs. 8 cross tabulation)
a. Frequency table

| Q2 and 8 | Up to $25 \%$ | $25-50 \%$ |  | $50-75 \%$ | $75-100 \%$ | $100 \%$ | Non- <br> Response |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Very High (Expert) | 169 | 84 | 89 | 16 | 104 | 2 | 464 |
| Above Average | 1684 | 555 | 436 | 30 | 368 | 28 | 3101 |
| Average | 2321 | 371 | 218 | 8 | 129 | 59 | 3106 |
| Below Average | 181 | 22 | 6 | 1 | 7 | 12 | 229 |
| Very Low (Novice) | 15 | 1 | 2 |  | 1 |  | 19 |
| Total | 4370 | 1033 | 751 | 55 | 609 | 101 | 6919 |

## b. Percentile

| Q2 and 8 | Up to $25 \%$ | $25-50 \%$ | $50-75 \%$ | $75-100 \%$ | $100 \%$ | Non- <br> Response |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Very High (Expert) | $36.4 \%$ | $18.1 \%$ | $19.2 \%$ | $3.4 \%$ | $22.4 \%$ | $0.4 \%$ |
| Above Average | $54.3 \%$ | $17.9 \%$ | $14.1 \%$ | $1.0 \%$ | $11.9 \%$ | $0.9 \%$ |
| Average | $74.7 \%$ | $11.9 \%$ | $7.0 \%$ | $0.3 \%$ | $4.2 \%$ | $1.9 \%$ |
| Below Average | $79.0 \%$ | $9.6 \%$ | $2.6 \%$ | $0.4 \%$ | $3.1 \%$ | $5.2 \%$ |
| Very Low (Novice) | $78.9 \%$ | $5.3 \%$ | $10.5 \%$ | $0.0 \%$ | $5.3 \%$ | $0.0 \%$ |
| Total | $63.2 \%$ | $14.9 \%$ | $10.9 \%$ | $0.8 \%$ | $8.8 \%$ | $1.5 \%$ |

10. The proportion of homework assignment based on digital resources: Disaggregated by grade level (Question 3 vs. 8 cross tabulation, while sub-aggregating Question 3 responses)
a. Aggregated educational level

| Q3 and 8 | Up to $25 \%$ | $25-50 \%$ | $50-75 \%$ | $75-100 \%$ | $100 \%$ | Non- <br> Response | Total |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Primary Grades | 2498 | 272 | 131 | 7 | 81 | 95 | 3084 |
| Intermediate Grades | 2511 | 416 | 200 | 9 | 133 | 49 | 3318 |
| Middle School <br> Grades | 2348 | 909 | 657 | 41 | 541 | 22 | 4518 |
| High School Grades | 4305 | 1881 | 1617 | 141 | 1410 | 31 | 9385 |
| Total | 11662 | 3478 | 2605 | 198 | 2165 | 197 | 20305 |

* Note: Question 3 allows multiple responses and analyses are based on those multiple response as single responses.
b. Detailed level

| Q3 and 8 | Up to $25 \%$ | 25-50\% | 50-75\% | 75-100\% | 100\% | NonResponse | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pre-K | 205 | 20 | 10 |  | 4 | 24 | 263 |
| K | 731 | 75 | 37 | 3 | 26 | 28 | 900 |
| 1 | 752 | 93 | 40 | 2 | 26 | 22 | 935 |
| 2 | 810 | 84 | 44 | 2 | 25 | 21 | 986 |
| 3 | 823 | 108 | 59 | 2 | 32 | 19 | 1043 |
| 4 | 825 | 129 | 54 | 3 | 41 | 18 | 1070 |
| 5 | 863 | 179 | 87 | 4 | 60 | 12 | 1205 |
| 6 | 737 | 223 | 159 | 8 | 124 | 10 | 1261 |
| 7 | 787 | 332 | 250 | 15 | 202 | 6 | 1592 |
| 8 | 824 | 354 | 248 | 18 | 215 | 6 | 1665 |
| 9 | 1021 | 437 | 364 | 30 | 319 | 7 | 2178 |
| 10 | 1083 | 470 | 406 | 35 | 342 | 7 | 2343 |
| 11 | 1107 | 489 | 426 | 38 | 374 | 8 | 2442 |
| 12 | 1094 | 485 | 421 | 38 | 375 | 9 | 2422 |
| Total | 11662 | 3478 | 2605 | 198 | 2165 | 197 | 20305 |

* Note: Question 3 allows multiple responses and analyses are based on those multiple response as single responses.

Appendix A.
Questions 1-12 Simple Frequency with percentile information tables

1. How long have you been teaching?

| $\#$ | Answer | $\%$ | Count |
| :--- | :--- | ---: | ---: |
| 1 | Less than a year | $0.42 \%$ | 29 |
| 2 | 1-2 years | $5.65 \%$ | 391 |
| 3 | 3-5 years | $11.38 \%$ | 787 |
| 4 | 6-10 years | $16.63 \%$ | 1150 |
| 5 | 11-19 years | $27.44 \%$ | 1898 |
| 6 | 20 or more years | $38.48 \%$ | 2662 |
|  | Total | $100 \%$ | 6917 |

2. Please identify your level of proficiency with educational technology hardware and software.

| $\#$ | Answer | $\%$ | Count |
| :--- | :--- | ---: | ---: |
| 1 | Very High (Expert) | $6.71 \%$ | 464 |
| 2 | Above Average | $44.82 \%$ | 3100 |
| 3 | Average | $44.89 \%$ | 3105 |
| 4 | Below Average | $3.31 \%$ | 229 |
| 5 | Very Low (Novice) | $0.27 \%$ | 19 |
|  | Total | $100 \%$ | 6917 |

3. Which of the following grade levels of students do you teach? Please check all that apply.

| $\#$ |  | Answer | $\%$ |
| :---: | :--- | ---: | ---: |
| 1 | Pre-K |  | Count |
| 2 | K | $1.30 \%$ | 263 |
| 3 | 1 | $4.43 \%$ | 900 |
| 4 | 2 | $4.61 \%$ | 935 |
| 5 | 3 | $4.86 \%$ | 986 |
| 6 | 4 | $5.14 \%$ | 1043 |
| 7 | 5 | $5.27 \%$ | 1069 |
| 8 | 6 | $5.94 \%$ | 1205 |
| 9 | 7 | $6.21 \%$ | 1261 |
| 10 | 8 | $7.84 \%$ | 1592 |
| 11 | 9 | $8.20 \%$ | 1665 |
| 12 | 10 | $10.73 \%$ | 2178 |
| 13 | 11 | $11.54 \%$ | 2343 |
| 14 | 12 | $12.02 \%$ | 2441 |
|  | Total | $11.92 \%$ | 2421 |

4. Which subject area do you spend the most time teaching? Please select only one.

| $\#$ | Answer | $\%$ | Count |
| :---: | :--- | ---: | ---: |
| 1 | Mathematics | $10.61 \%$ | 734 |
| 2 | Science | $8.27 \%$ | 572 |
| 3 | Social Studies | $6.62 \%$ | 458 |
| 4 | English/Language Arts | $16.32 \%$ | 1129 |
| 5 | Fine/Performing Arts | $5.25 \%$ | 363 |
| 6 | Health and Physical | $3.82 \%$ | 264 |
|  | Education | $2.91 \%$ | 201 |
| 7 | World Languages | $3.35 \%$ | 232 |
| 8 | Business/Technology | $2.11 \%$ | 146 |
| 9 | Industrial |  |  |
| 10 | Technology/Agriculture | $29.98 \%$ | 2074 |
| 11 | Elementary (All Subjects) | $5.00 \%$ | 346 |
| 12 | Special Education | $5.75 \%$ | 398 |
|  | Tother (please specify): | $100 \%$ | 6917 |

Other Area Specifics:

| Subjects | N |
| :--- | ---: |
| 21st Century | 1 |
| Administration | 3 |
| JROTC | 8 |
| Agriculture | 5 |
| All Areas | 13 |
| Alt Ed. | 6 |
| History | 1 |
| Art | 8 |
| Technology | 4 |
| Automotive | 2 |
| Media | 8 |
| Math | 4 |
| Career | 9 |
| CNA | 1 |
| Computer Science | 11 |
| Spanish | 3 |
| Counseling | 11 |
| Creative Curriculum | 1 |
| Culinary Arts | 2 |
| Deaf Ed. | 1 |
| Development | 1 |
| Early Childhood | 9 |
| ELL | 36 |


| ESL | 20 |
| :--- | ---: |
| Engineering | 1 |
| English | 1 |
| FACS | 86 |
| Nutrition | 1 |
| Functional Vocational Skills | 1 |
| Etc. | 1 |
| Music | 10 |
| Guidance | 8 |
| Health Science | 5 |
| Honors Special Projects | 1 |
| SPED | 3 |
| Preschool | 15 |
| Intervention | 1 |
| Journalism | 8 |
| Learning and Play | 2 |
| Library | 7 |
| Life Skills | 4 |
| Reading | 24 |
| Outdoor Ed | 2 |
| PE | 2 |
| PHOTOGRAPHY | 1 |
| Post secondary transition | 1 |
| Speaking | 1 |
| Science | 1 |
| Social and emotional | 22 |
| development | 2 |
| Speech | 3 |
| STEM | 1 |
| Support | 4 |
| Title 1 | 4 |
| Arts | 1 |
| Writing |  |
| Non-Response |  |
| Total | 298 |
|  | 2 |

5. What is the size of the community where your school or school district is located?

| $\#$ | Answer | $\%$ | Count |
| :--- | :--- | ---: | ---: |
| 1 | In a rural setting or village or town of less | $31.36 \%$ | 2169 |
| 2 | than 2,500 population | $16.03 \%$ | 1109 |
| 3 | In a city of 2,500 - 9,999 population | $9.44 \%$ | 653 |
| 4 | In a city of 10,000 - 24,999 population | $43.17 \%$ | 2986 |
|  | In a city of 25,000 or more population | $100 \%$ | 6917 |

6. In which ESU is your school or school district located? (http://www.esucc.org/NEBRASKA-ESUS)

| $\#$ |  | Answer | $\%$ |
| :---: | :--- | ---: | ---: |
| 1 | ESU 1 | $6.31 \%$ | 429 |
| 2 | ESU 2 | $4.52 \%$ | 307 |
| 3 | ESU 3 | $20.93 \%$ | 1423 |
| 5 | ESU 4 | $2.99 \%$ | 203 |
| 4 | ESU 5 | $2.43 \%$ | 165 |
| 6 | ESU 6 | $4.63 \%$ | 315 |
| 7 | ESU 7 | $4.88 \%$ | 332 |
| 8 | ESU 8 | $4.79 \%$ | 326 |
| 9 | ESU 9 | $3.91 \%$ | 266 |
| 10 | ESU 10 | $9.06 \%$ | 616 |
| 11 | ESU 11 | $2.46 \%$ | 167 |
| 13 | ESU 13 | $5.04 \%$ | 343 |
| 15 | ESU 15 | $1.26 \%$ | 86 |
| 16 | ESU 16 | $3.25 \%$ | 221 |
| 17 | ESU 17 | $1.12 \%$ | 76 |
| 18 | ESU 18 (Lincoln Public | $9.77 \%$ | 664 |
|  | Schools) |  |  |
| 19 | ESU 19 (Omaha Public | $12.65 \%$ | 860 |
|  | Schools) | $100 \%$ | 6799 |
|  | Total |  |  |

7. Has a majority of your assigned students been provided district-owned computing devices to use at home?

| $\#$ |  | Answer | $\%$ |
| :--- | :--- | ---: | ---: |
| 1 | Yes |  | Count |
| 2 | No | $46.07 \%$ | 3184 |
|  | Total | $53.93 \%$ | 3727 |

8. What proportion of your homework assignments or readings are dependent on digital or Internet-based resources (i.e., non-print resources)?

| Answer | $\%$ | Count |
| :--- | ---: | ---: |
| Up to $25 \%$ | $64.10 \%$ | 4369 |
| Between $25 \%$ and $50 \%$ | $15.16 \%$ | 1033 |
| Between $50 \%$ and $75 \%$ | $11.02 \%$ | 751 |
| Between $75 \%$ and $100 \%$ | $8.92 \%$ | 608 |
| $100 \%$ | $0.81 \%$ | 55 |
| Total | $100 \%$ | 6816 |

9. What would you estimate as the percentage of your school's students who do not have home Internet access to complete homework?

|  | Answer | Count |
| :--- | ---: | ---: |
| $0-10 \%$ | $35.09 \%$ | 2414 |
| $11-20 \%$ | $27.72 \%$ | 1907 |
| $21-30 \%$ | $15.39 \%$ | 1059 |
| $31-40 \%$ | $9.80 \%$ | 674 |
| More than $40 \%$ | $12.01 \%$ | 826 |
| Total | $100 \%$ | 6880 |

10. Please indicate how strongly you agree or disagree with the following statement: The absence of home Internet access for some students in a class affect the level or amount of homework that I assign for all students in that class.

| Answer | $\%$ | Count |
| :--- | ---: | ---: |
| Strongly agree | $18.69 \%$ | 1288 |
| Somewhat agree | $29.20 \%$ | 2012 |
| Neither agree nor disagree | $19.32 \%$ | 1331 |
| Somewhat disagree | $14.19 \%$ | 978 |
| Strongly disagree | $18.60 \%$ | 1282 |
| Total | $100 \%$ | 6891 |

11. What, if any, instructional accommodations do you (and/or your school) make to address students' lack of home Internet access? Please check all that apply.
a. Frequency for Aggregated response by response choice

| \# | Answer | \% | Count |
| :---: | :---: | :---: | :---: |
| 1 | Families are informed about community locations where free Wi-Fi is available. | 10.70\% | 1885 |
| 2 | I allow more days (longer duration) for students to complete their homework assignments. | 10.24\% | 1803 |
| 3 | I assign less homework overall. | 10.30\% | 1814 |
| 4 | I place less emphasis on homework for students' overall grades. | 7.63\% | 1344 |
| 5 | I provide more class time to complete homework assignments. | 21.31\% | 3754 |
| 6 | Some students are provided printed materials that otherwise would be Internet-based. | 16\% | 2823 |
| 7 | The school lends cellular hotspots to students for home Internet access. | 0.0112 | 198 |
| 8 | The school provides before-school and afterschool time to complete homework assignments. | 13.04\% | 2297 |
| 9 | Other (please specify): | 5.03\% | 886 |
| 10 | I do not make any accommodations. | 4.59\% | 809 |
|  | Total | 100.00\% | 17613 |

## b. Frequency for Actual Response

|  | Response | Total |
| :--- | ---: | ---: |
| 1 |  | 150 |
| 2 |  | 91 |
| 3 |  | 238 |
| 4 |  | 66 |
| 5 |  | 487 |
| 6 |  | 242 |
| 7 |  | 8 |
| 8 |  | 110 |
| 9 |  | 563 |
| 10 |  | 673 |


| 1,2 | 17 |
| :---: | :---: |
| 1,2,3 | 8 |
| 1,2,3,4 | 10 |
| 1,2,3,4,5 | 11 |
| 1,2,3,4,5,6 | 24 |
| 1,2,3,4,5,6,7 | 1 |
| 1,2,3,4,5,6,7,8 | 15 |
| 1,2,3,4,5,6,8 | 46 |
| 1,2,3,4,5,6,8,9 | 6 |
| 1,2,3,4,5,7,8 | 3 |
| 1,2,3,4,5,8 | 18 |
| 1,2,3,4,5,8,9 | 1 |
| 1,2,3,4,6 | 4 |
| 1,2,3,4,6,7,8 | 1 |
| 1,2,3,4,6,8 | 6 |
| 1,2,3,4,6,8,9 | 1 |
| 1,2,3,4,8 | 2 |
| 1,2,3,5 | 12 |
| 1,2,3,5,6 | 23 |
| 1,2,3,5,6,7 | 1 |
| 1,2,3,5,6,7,8 | 9 |
| 1,2,3,5,6,8 | 47 |
| 1,2,3,5,6,8,9 | 2 |
| 1,2,3,5,6,9 | 1 |
| 1,2,3,5,7,8 | 1 |
| 1,2,3,5,8 | 17 |
| 1,2,3,5,9 | 1 |
| 1,2,3,6 | 2 |
| 1,2,3,6,8 | 4 |
| 1,2,3,6,8,9 | 1 |
| 1,2,3,8 | 1 |
| 1,2,3,9 | 2 |
| 1,2,4 | 4 |
| 1,2,4,5 | 7 |
| 1,2,4,5,6 | 9 |
| 1,2,4,5,6,7,8 | 5 |
| 1,2,4,5,6,8 | 31 |
| 1,2,4,5,6,8,9 | 2 |
| 1,2,4,5,7 | 1 |
| 1,2,4,5,7,8 | 2 |
| 1,2,4,5,8 | 8 |
| 1,2,4,5,8,9 | 2 |
| 1,2,4,6 | 8 |
| 1,2,4,6,7,8 | 1 |


| 1,2,4,6,8 | 8 |
| :---: | :---: |
| 1,2,4,8 | 2 |
| 1,2,5 | 46 |
| 1,2,5,6 | 48 |
| 1,2,5,6,7 | 2 |
| 1,2,5,6,7,8 | 10 |
| 1,2,5,6,8 | 128 |
| 1,2,5,6,8,9 | 7 |
| 1,2,5,6,9 | 6 |
| 1,2,5,7,8 | 2 |
| 1,2,5,8 | 33 |
| 1,2,5,8,9 | 1 |
| 1,2,6 | 16 |
| 1,2,6,7,8 | 8 |
| 1,2,6,7,8,9 | 1 |
| 1,2,6,8 | 17 |
| 1,2,6,8,9 | 1 |
| 1,2,6,9 | 2 |
| 1,2,7 | 1 |
| 1,2,7,8 | 1 |
| 1,2,8 | 15 |
| 1,3 | 17 |
| 1,3,4 | 13 |
| 1,3,4,5 | 17 |
| 1,3,4,5,6 | 29 |
| 1,3,4,5,6,7,8 | 1 |
| 1,3,4,5,6,8 | 29 |
| 1,3,4,5,6,8,9 | 3 |
| 1,3,4,5,7 | 1 |
| 1,3,4,5,7,8 | 2 |
| 1,3,4,5,8 | 14 |
| 1,3,4,6 | 4 |
| 1,3,4,6,8 | 3 |
| 1,3,4,7,8 | 1 |
| 1,3,4,8 | 3 |
| 1,3,4,8,9 | 1 |
| 1,3,5 | 28 |
| 1,3,5,6 | 28 |
| 1,3,5,6,7,8 | 3 |
| 1,3,5,6,8 | 37 |
| 1,3,5,6,8,9 | 3 |
| 1,3,5,6,9 | 1 |
| 1,3,5,7 | 1 |
| 1,3,5,7,8 | 1 |

$\begin{array}{lr}1,3,5,8 & 24 \\ 1,3,5,8,9 & 2\end{array}$
1,3,5,9
1
1,3,6
9
$1,3,6,7 \quad 1$
1,3,6,8
6
1,3,8 5
1,3,9 2
1,4 9
$1,4,5$ 12
$1,4,5,6 \quad 22$
$1,4,5,6,7 \quad 1$
$1,4,5,6,8 \quad 23$
$1,4,5,6,9 \quad 1$
$1,4,5,7,8 \quad 1$
$1,4,5,8 \quad 18$
$1,4,5,8,9 \quad 1$
$1,4,5,9 \quad 1$
$1,4,6$ 8
$1,4,6,7,8 \quad 1$
$1,4,6,8 \quad 7$
$1,4,6,8,9 \quad 1$
$1,4,8$ 8
$1,4,8,9 \quad 1$
1,5 55
1,5,6 68
$1,5,6,7 \quad 1$
$1,5,6,7,8 \quad 9$
$1,5,6,7,8,9 \quad 1$
$1,5,6,8 \quad 130$
$1,5,6,8,9 \quad 8$
$1,5,6,9 \quad 4$
$1,5,7,8$ 6
1,5,8 72
$1,5,8,9 \quad 6$
1,6 40
$1,6,7$ 2
$1,6,7,8$ 6
$1,6,7,8,9 \quad 2$
$1,6,8$ 75
$1,6,8,9 \quad 9$
$1,6,9$ 5
1,7,8 3
1,8 38

| 1,8,9 | 4 |
| :---: | :---: |
| 1,9 | 20 |
| 10,1 | 12 |
| 10,1,2,3,4,5,6,8 | 1 |
| 10,1,2,4 | 1 |
| 10,1,2,5,6,8 | 1 |
| 10,1,2,6,8 | 1 |
| 10,1,3,4 | 1 |
| 10,1,3,4,5 | 2 |
| 10,1,4,6 | 1 |
| 10,1,5,6,8,9 | 1 |
| 10,1,5,8 | 3 |
| 10,1,6 | 4 |
| 10,1,7 | 1 |
| 10,1,8 | 4 |
| 10,1,9 | 2 |
| 10,2,3,4,5 | 1 |
| 10,2,3,5 | 1 |
| 10,2,4 | 1 |
| 10,2,4,5 | 1 |
| 10,2,5 | 1 |
| 10,2,5,8 | 1 |
| 10,3 | 5 |
| 10,3,4 | 2 |
| 10,3,4,5 | 2 |
| 10,3,4,5,6,8 | 1 |
| 10,3,5 | 2 |
| 10,3,5,6 | 1 |
| 10,3,9 | 2 |
| 10,4 | 1 |
| 10,4,5,8 | 1 |
| 10,4,6 | 1 |
| 10,5 | 4 |
| 10,5,6 | 1 |
| 10,5,8 | 2 |
| 10,6 | 4 |
| 10,6,8 | 5 |
| 10,7,8 | 1 |
| 10,7,8,9 | 1 |
| 10,8 | 13 |
| 10,8,9 | 2 |
| 10,9 | 44 |
| 2,3 | 15 |
| 2,3,4 | 5 |


| 2,3,4,5 | 47 |
| :---: | :---: |
| 2,3,4,5,6 | 58 |
| 2,3,4,5,6,7 | 1 |
| 2,3,4,5,6,7,8 | 4 |
| 2,3,4,5,6,7,9 | 1 |
| 2,3,4,5,6,8 | 39 |
| 2,3,4,5,6,8,9 | 2 |
| 2,3,4,5,6,9 | 2 |
| 2,3,4,5,7,8 | 1 |
| 2,3,4,5,8 | 17 |
| 2,3,4,5,9 | 1 |
| 2,3,4,6 | 3 |
| 2,3,4,6,8 | 5 |
| 2,3,4,6,8,9 | 2 |
| 2,3,4,8 | 2 |
| 2,3,5 | 48 |
| 2,3,5,6 | 58 |
| 2,3,5,6,7 | 1 |
| 2,3,5,6,7,8 | 6 |
| 2,3,5,6,8 | 39 |
| 2,3,5,6,8,9 | 2 |
| 2,3,5,6,9 | 4 |
| 2,3,5,7 | 1 |
| 2,3,5,7,8 | 1 |
| 2,3,5,8 | 32 |
| 2,3,6 | 5 |
| 2,3,6,8 | 2 |
| 2,3,8 | 1 |
| 2,3,9 | 2 |
| 2,4 | 2 |
| 2,4,5 | 19 |
| 2,4,5,6 | 24 |
| 2,4,5,6,7 | 1 |
| 2,4,5,6,7,8 | 1 |
| 2,4,5,6,8 | 17 |
| 2,4,5,6,8,9 | 1 |
| 2,4,5,6,9 | 2 |
| 2,4,5,8 | 9 |
| 2,4,6 | 13 |
| 2,4,6,8 | 8 |
| 2,4,7,8,9 | 1 |
| 2,4,8 | 4 |
| 2,4,8,9 | 1 |
| 2,5 | 94 |

47
58
1
4
1
39
2
2
1
17
1
3
5 2

2 48
58
1
6
39
2
4
1
1
32
5
2
1 2
2
19
24
1
1
17
1
2
9
13
8
1

| 2,5,6 | 94 |
| :---: | :---: |
| 2,5,6,7,8 | 3 |
| 2,5,6,8 | 130 |
| 2,5,6,8,9 | 7 |
| 2,5,6,9 | 1 |
| 2,5,7 | 1 |
| 2,5,7,8 | 1 |
| 2,5,8 | 64 |
| 2,5,9 | 1 |
| 2,6 | 13 |
| 2,6,7,8 | 2 |
| 2,6,8 | 29 |
| 2,6,8,9 | 3 |
| 2,7 | 2 |
| 2,8 | 14 |
| 2,8,9 | 1 |
| 3,4 | 30 |
| 3,4,5 | 77 |
| 3,4,5,6 | 67 |
| 3,4,5,6,7,8 | 1 |
| 3,4,5,6,8 | 32 |
| 3,4,5,6,8,9 | 1 |
| 3,4,5,6,9 | 3 |
| 3,4,5,7 | 1 |
| 3,4,5,8 | 30 |
| 3,4,5,8,9 | 1 |
| 3,4,5,9 | 5 |
| 3,4,6 | 15 |
| 3,4,6,8 | 9 |
| 3,4,8 | 7 |
| 3,4,8,9 | 2 |
| 3,4,9 | 3 |
| 3,5 | 83 |
| 3,5,6 | 68 |
| 3,5,6,7 | 1 |
| 3,5,6,7,8 | 4 |
| 3,5,6,8 | 44 |
| 3,5,6,8,9 | 2 |
| 3,5,6,9 | 4 |
| 3,5,7,8 | 2 |
| 3,5,8 | 31 |
| 3,5,9 | 3 |
| 3,6 | 21 |
| 3,6,7 | 1 |

94
3 130

7
1
1
1
64
1
13
2
29
3
2
14
1
30
77

3,4,5,6,7,8 1
3,4,5,6,8
3,4,5,6,8,9 1
3,4,5,6,9 3
3,4,5,7 1
3,4,5,8 30
3,4,5,8,9 1
3,4,5,9 5
3,4,6 15
3,4,6,8 9
3,4,8 7
3,4,8,9 2
3,4,9 3
3,5 83
3,5,6 68
3,5,6,7 1
3,5,6,7,8 4
3,5,6,8 44
3,5,6,8,9 2
3,5,6,9 4
3,5,7,8 2
3,5,8 31
3,5,9 3
3,6 21
3,6,7 1

| 3,6,8 | 9 |
| :---: | :---: |
| 3,6,9 | 1 |
| 3,7 | 1 |
| 3,8 | 6 |
| 3,8,9 | 3 |
| 3,9 | 11 |
| 4,5 | 44 |
| 4,5,6 | 52 |
| 4,5,6,7 | 1 |
| 4,5,6,7,8 | 1 |
| 4,5,6,8 | 27 |
| 4,5,6,8,9 | 1 |
| 4,5,7 | 2 |
| 4,5,7,8 | 2 |
| 4,5,8 | 24 |
| 4,5,9 | 3 |
| 4,6 | 20 |
| 4,6,7,8 | 1 |
| 4,6,8 | 18 |
| 4,8 | 8 |
| 4,8,9 | 3 |
| 4,9 | 3 |
| 5,6 | 205 |
| 5,6,7 | 2 |
| 5,6,7,8 | 12 |
| 5,6,8 | 158 |
| 5,6,8,9 | 8 |
| 5,6,9 | 7 |
| 5,7,8 | 3 |
| 5,8 | 110 |
| 5,8,9 | 11 |
| 5,9 | 20 |
| 6,7 | 2 |
| 6,7,8 | 10 |
| 6,8 | 67 |
| 6,8,9 | 5 |
| 6,9 | 11 |
| 7,8 | 1 |
| 7,8,9 | 1 |
| 7,9 | 1 |
| 8,9 | 11 |
| Total | 6870 |

12. If, suddenly, every one of your students had broadband Internet access at home, what level of impact might this have on student learning/achievement?"

| $\#$ | Answer | $\%$ | Count |
| :---: | :--- | ---: | ---: |
| 1 | Substantial negative impact | $1.51 \%$ | 104 |
| 2 | Minimal negative impact | $2.86 \%$ | 197 |
| 3 | No impact | $18.30 \%$ | 1259 |
| 4 | Minimal positive impact | $50.02 \%$ | 3441 |
| 5 | Substantial positive impact | $27.30 \%$ | 1878 |
|  | Total | $100 \%$ | 6879 |

## Appendix B.

Sample Email Communication messages

## Pre-notice to Superintendents

Date: Monday, July 8, 2019
Subject: Pre-notice of 2018-2019 Nebraska Homework Gap Survey

Dear \$ \{m:/ /FirstName\} \$\{m://LastName\},

The Nebraska Department of Education is partnering with the Nebraska Rural Broadband Task Force's Homework Gap Subcommittee to conduct a survey of Nebraska public and private PreK-12 teachers. This purpose of this very brief questionnaire is to help determine the degree to which the absence of students' home internet is influencing the instructional environment.

Teacher responses will remain confidential, and reports will only use aggregated results.

We would appreciate your cooperation in encouraging your teachers' participation. A copy of the survey can be accessed here for your viewing: Nebraska Homework Gap Survey

Thank you for your time,

Tom Rolfes
Education I.T. Manager
Nebraska Office of the CIO/NITC

## Email Invitation

Date: July 9, 2019
Subject: 2018-2019 Nebraska Homework Gap Survey
Dear \$ \{m:/ /FirstName\} \$ \{m://LastName\},
The Nebraska Department of Education is looking to improve how student data is used to inform school practices. As such, we are requesting your participation in the 2018-19 Homework Gap Survey. The survey is designed to gather your input regarding how the absence of some students' access to home internet is affecting your teaching and if any accommodations are being provided for these students.

The survey should only take two to three minutes to complete. Your responses to this survey will remain completely confidential, and reports will only use aggregated results. Please complete the survey by July 30, 2019.

The survey can be accessed by clicking on the following link: \$\{1://SurveyLink?d=Take\%20the\%20Survey $\}$

Should you have any questions, please direct them to nde.research@nebraska.gov or tom.rolfes@.nebraska.gov.

Thank you for your time.

Sincerely,
Tom Rolfes
Education I.T. Manager
Nebraska Office of the CIO/NITC

## Email Reminder

Date: July 16, 2019
Subject: Reminder: 2018-2019 Nebraska Homework Gap Survey

Dear $\$$ \{m:/ /FirstName $\} \$\{\mathrm{~m}: / /$ LastName $\}$,
On July 9, we sent you an email invitation to participate in the 2018-19 Homework Gap Survey. This survey is important as it provides the Nebraska Department of Education with input regarding how the absence of some students' access to home internet is affecting your teaching and if any accommodations are being provided for these students. To the best of our knowledge, you have yet to respond to this survey. We are reaching out to you again because your response is very important to us.

The survey should only take two to three minutes to complete. Your responses to this survey will remain completely confidential, and reports will only use aggregated results. Please complete the survey by July 30, 2019.

The survey can be accessed by clicking on the following link:
\$ $\{1: / /$ SurveyLink?d=Take\%20the\%20Survey $\}$
Should you have any questions, please direct them to nde.research@nebraska.gov or tom.rolfes@nebraska.gov.

Thank you for your time.

Sincerely,

Tom Rolfes
Education I.T. Manager
Nebraska Office of the CIO/NITC

## Final Email Reminder

Date: July 23, 2019
Subject: Final Reminder: 2018-2019 Nebraska Homework Gap Survey

Dear \$ \{m:/ /FirstName\} \$\{m://LastName\},
On July 9, 2019, and again on July 16, 2019, we sent you an email invitation to participate in the 2018-19 Homework Gap Survey. This survey is important as it seeks to determine how the absence of some students' access to home internet is affecting your teaching and if any accommodations are being provided for these students. To the best of our knowledge, you have yet to respond to this survey. We are reaching out to you again because your response is very important to us.

The survey should only take two to three minutes to complete. Your responses to this survey will remain completely confidential, and reports will only use aggregated results. Please complete the survey by July 30, 2019.

The survey can be accessed by clicking on the following link:
\$ $\{1: / /$ SurveyLink?d=Take\%20the\%20Survey $\}$
Should you have any questions, please direct them to nde.research@nebraska.gov or tom.rolfes@nebraska.gov .

Thank you for your time.

Sincerely,
Tom Rolfes
Education I.T. Manager
Nebraska Office of the CIO/NITC

Appendix C.
Survey Instruments


Default Question Block

## Nebraska Homework Gap Survey

Welcome!

The Nebraska Rural Broadband Task Force's (https://ruralbroadband.nebraska.gov)
Homework Gap Subcommittee is conducting a non-scientific questionnaire of Nebraska public and private PreK-12 teachers to help determine the degree to which the absence of Internet at students' homes is influencing the instructional environment. There are 12 short questions that should not require longer than 3 minutes to complete. Your responses will remain confidential, and reports will only use aggregated results.

1. How long have you been teaching?

O Less than a year
○ 1-2 years
O 3-5 years
O 6-10 years
O 11-19 years
O 20 or more years
2. Please identify your level of proficiency with educational technology hardware and software.

O Very High (Expert)
O Above Average
O Average

O Below Average
O Very Low (Novice)
3. Which of the following grade levels of students do you teach? Please check all that apply.

```
\square ~ P r e - K
```

```
\(\square 1\)
\(\square 2\)
\(\square 3\)
\(\square 4\)
```

```
Pre-K K 2 3
5
```


4. Which subject area do you spend the most time teaching? Please select only one.

O Business/Technology
Elementary (All Subjects)
O English/Language Arts
O Fine/Performing Arts
O Health and Physical Education
O Industrial Technology/Agriculture
O Mathematics
O Science
O Social Studies
O Special Education
O World Languages
O Other (please specify): $\qquad$
5. What is the size of the community where your school or school district is located?
$\bigcirc$
In a rural setting or village or town of less than 2,500 population
O In a city of 2,500-9,999 population
O In a city of 10,000-24,999 population
O In a city of 25,000 or more population
6. In which ESU is your school or school district located? (http://www.esucc.org/NEBRASKAESUS)
$\square$
7. Has a majority of your assigned students been provided district-owned computing devices to use at home?
$\bigcirc$ Yes
O No
8. What proportion of your homework assignments or readings are dependent on digital or Internet-based resources (i.e., non-print resources)?

○ Up to $25 \%$
O Between $25 \%$ and $50 \%$
O Between 50\% and 75\%
O Between 75\% and 100\%
○ 100\%
9. What would you estimate as the percentage of your school's students who do not have home Internet access to complete homework?

○ 0-10\%
○ 11-20\%
○ $21-30 \%$
○ $31-40 \%$
○ More than 40\%
10. Please indicate how strongly you agree or disagree with the following statement:

The absence of home Internet access for some students in a class affect the level or amount of homework that I assign for all students in that class.

○ Strongly agree
O Somewhat agree
O Neither agree nor disagree
O Somewhat disagree
O Strongly disagree
11. Do you (and/or your school) make, if any, accommodations to address students' lack of home Internet access?
$\bigcirc$ Yes
O No

What accommodations do you (and/or your school) make to address students' lack of home internet access? Please check all that apply.
$\square$ Families are informed about community locations where free Wi-Fi is available.
$\square$ I allow more days (longer duration) for students to complete their homework assignments.
$\square$ I assign less homework overall.
$\square$ I place less emphasis on homework for students' overall grades.
$\square$ I provide more class time to complete homework assignments.
$\square$ Some students are provided printed materials that otherwise would be Internet-based.
$\square$ The school lends cellular hotspots to students for home Internet access.
$\square$ The school provides before-school and after-school time to complete homework assignments.
$\square$ Other (please specify): $\square$
12. If, suddenly, every one of your students had broadband Internet access at home, what level of impact might this have on student learning/achievement?

O Substantial negative impact
O Minimal negative impact
O No impact
O Minimal positive impact
O Substantial positive impact

## Final Page

If you have any other comments on this survey, please provide them in the box below. Otherwise, please hit the "Submit" button to exit the survey.



For more information about this survey, please contact:
Tom Rolfes | Office of the CIO | Tom.Rolfes@nebraska.gov | 402-471-7969

Powered by Qualtrics


[^0]:    * Note: Q11 allows multiple responses from the options. Table only displays results from single options and multiple options that have more than 100 responses.

