

Playworks HSA-RSC Statistical Report: AmeriCorps Subsample

The Holistic Student Assessment (HSA) Retrospective Self-Change (RSC) was administered to 321 Playworks youth at AmeriCorps sites in Fall 2021 – Spring 2022. This document provides results from statistical analyses conducted for the overall AmeriCorps subsample, as well as by region, gender, grade, and race/ethnicity. For sample sizes greater than or equal to 20, parametric tests were performed. Statistical tests were not performed for any group with 19 or fewer responses.

Statistical Analysis

On the Retrospective Self-Change format of the HSA, youth responded to items by selecting the degree of change they observed in themselves since the beginning of their program. Youth self-reported mean change scores were analyzed to see if they differed significantly from 3, a rating of "About the Same." If the *p*-value of a given scale was below 0.05, its mean change score was significant and unlikely due to chance. Mean change scores greater than 3 indicate positive change; those less than 3 indicate negative change, and those equal to three indicate no change.

A one-sample *t*-test was conducted to analyze outcomes for the entire subsample. Then, outcomes were analyzed by region. To analyze differences between regions, a one-way ANOVA *f*-test was conducted. To analyze differences within each region, a one-sample *t*-test was conducted. Then, outcomes were analyzed by gender. To analyze differences between genders, a one-way ANOVA *f*-test was conducted. To analyze differences within each gender, a one-sample *t*-test was conducted. Next, outcomes were analyzed by grade. To analyze differences between grades, an independent two-sample *t*-test was conducted. To analyze differences were analyzed by race/ethnicity. To analyze differences between race/ethnicity, a one-way ANOVA *f*-test was conducted. To analyze differences were analyzed by race/ethnicity. To analyze differences between race/ethnicity, a one-way ANOVA *f*-test was conducted. To analyze differences within each grade, a one-sample *t*-test was conducted. Lastly, outcomes were analyzed by race/ethnicity. To analyze differences between race/ethnicity, a one-way ANOVA *f*-test was conducted. To analyze differences within each race/ethnicity, a one-sample *t*-test was conducted.

For scales in which significant mean scores were identified using one-sample *t*-tests, the direction of that difference was then checked. For independent two-sample *t*-tests, and one-way ANOVA *f*-tests, additional post hoc analyses would be required to identify the patterns of differences between groups.

Findings

Overall AmeriCorps Subsample Results:

Youth reported statistically significant positive change (i.e., mean score greater than 3.0) on all 14 scales on this survey (p's < 0.001). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

To visualize the overall findings, a graph (**Figure 1**) is included in the Appendix. Scales with significant differences are marked with asterisks. **Figure 1** represents the average retrospective self-change for all 14 HSA scales. A similar visualization is available on Playworks' "HSA Live RSC Dashboard" in Qualtrics.



Region Analysis:

Between Group Results

There were statistically significant differences between regions on 5 of the 14 scales of this survey (p's < 0.05). <u>These scales were:</u> action orientation, assertiveness, emotion control, relationships with adults, and trust. Between regions, the following 9 scales <u>did not</u> <u>demonstrate significant differences:</u> academic motivation, critical thinking, empathy, learning interest, optimism, perseverance, reflection, relationships with peers, and school bonding.

Figure 2 and Figure 3 represent the average HSA retrospective self-change scores by region. Scales with significant differences are marked with asterisks.

Within Group Results

<u>California</u> youth (n = 75) reported statistically significant positive change on 12 of the 14 scales on this survey (*p*'s < 0.001). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance relationships with adults, relationships with peers, and school bonding. The following 2 scales <u>did not demonstrate significant differences:</u> reflection and trust.

<u>Colorado</u> youth (n = 22) reported statistically significant positive change on 13 of the 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust. The following scale <u>did not demonstrate significant differences:</u> emotion control.

<u>Indiana</u> youth (n = 55) reported statistically significant positive change on 13 of the 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust. The following scale <u>did not demonstrate significant differences:</u> emotion control.

<u>Massachusetts</u> youth (n = 88) reported statistically significant positive change on all 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

<u>New Jersey</u> youth (n = 41) reported statistically significant positive change on 13 of the 14 scales on this survey (*p*'s < 0.001). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust. The following scale <u>did not demonstrate significant differences:</u> emotion control.

<u>Pennsylvania</u> youth (n = 33) reported statistically significant positive change on 12 of the 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action



orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, relationships with adults, relationships with peers, and school bonding. The following 2 scales <u>did not demonstrate significant differences</u>: reflection and trust.

Gender Analysis:

Between Group Results

There were statistically significant differences between genders on 7 of the 14 scales of this survey (p's < 0.05). <u>These scales were</u>: action orientation, critical thinking, optimism, relationships with adults, relationships with peers, school bonding, and trust. Between genders, the following 7 scales <u>did not demonstrate significant differences</u>: academic motivation, assertiveness, emotion control, empathy, learning interest, perseverance, and reflection.

Figure 4 represents the average HSA retrospective self-change scores by gender. Scales with significant differences are marked with asterisks.

Within Group Results

<u>Girls</u> (n = 154) reported statistically significant positive change on all 14 scales on this survey (*p*'s < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

<u>Boys</u> (n = 147) reported statistically significant positive change on all 14 scales on this survey (*p*'s < 0.001). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

Youth who <u>preferred not to answer</u> or gender identity was <u>unlisted</u> (n = 20) reported statistically significant positive change on 6 of the 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, critical thinking, empathy, learning interest, perseverance, and reflection. The following 8 scales <u>did not demonstrate significant</u> <u>differences:</u> action orientation, assertiveness, emotion control, optimism, relationships with adults, relationships with peers, school bonding, and trust.

Grade Analysis:

Between Group Results

There were significant differences between grades on 5 of the 14 scales of this survey (p's < 0.05). <u>These scales were:</u> optimism, perseverance, relationships with adults, school bonding, and trust. Between grades, the following 9 scales <u>did not demonstrate significant</u> <u>differences:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, reflection, and relationships with peers.

Figure 5 represents the average HSA retrospective self-change scores by grade. Scales with significant differences are marked with asterisks.



Within Group Results

<u>Fourth graders</u> (n = 158) reported statistically significant positive change on all 14 scales on this survey (p's < 0.001). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

<u>Fifth graders</u> (n = 138) reported statistically significant positive change on all 14 scales on this survey (*p*'s < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

Race / Ethnicity Analysis:

Between Group Results

There were statistically significant differences between race/ethnicity on 2 of the 14 scales of this survey (p's < 0.05). <u>These scales were:</u> critical thinking and reflection. Between race/ethnicity, the following 12 scales <u>did not demonstrate significant differences:</u> academic motivation, action orientation, assertiveness, emotion control, empathy, learning interest, optimism, perseverance, relationships with adults, relationships with peers, school bonding, and trust.

Figure 6 represents the average HSA retrospective self-change scores by race/ethnicity. The scale with significant differences is marked with an asterisk.

Within Group Results

<u>African American, Black</u> youth (n = 119) reported statistically significant positive change on 13 of the 14 scales on this survey (p's < 0.001). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust. The following scale <u>did not demonstrate significant differences:</u> emotion control.

<u>Latino or Hispanic</u> youth (n = 104) reported statistically significant positive change on 13 of the 14 scales on this survey (*p*'s < 0.001). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust. The following scale <u>did not demonstrate significant differences:</u> emotion control.

Youth identifying as <u>other races/ethnicities</u> (n = 57) reported statistically significant positive change on all 14 scales on this survey (*p*'s < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

Youth who <u>preferred not to answer</u> (n = 32) reported statistically significant positive change on 12 of the 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, empathy, learning interest,



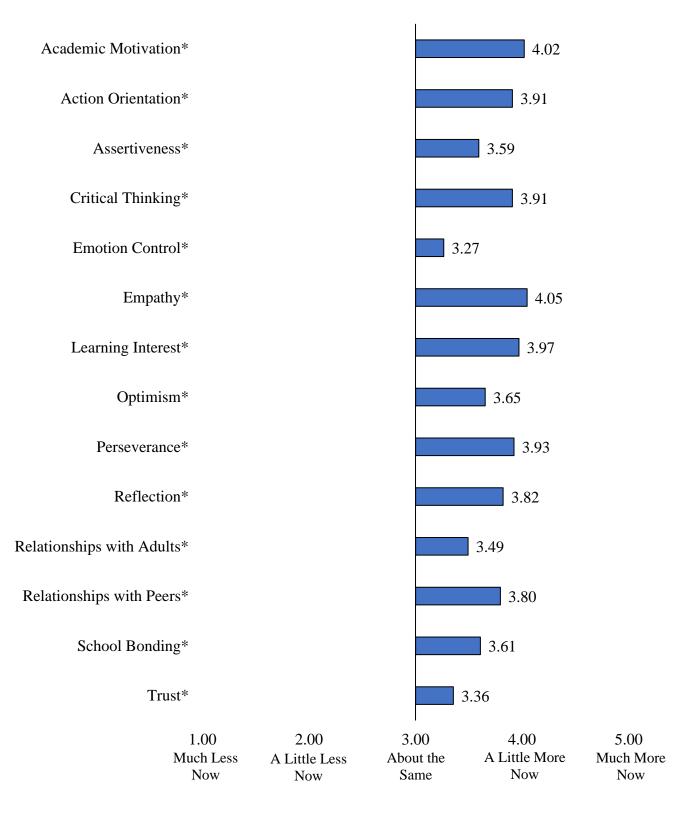
optimism, perseverance, reflection, relationships with peers, school bonding, and trust. The following 2 scales <u>did not demonstrate significant differences</u>: emotion control and relationships with adults.

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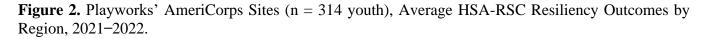


Appendix

Figure 1. Playworks' AmeriCorps Sites (N = 321 youth), Average HSA-RSC Outcomes, 2021–2022.







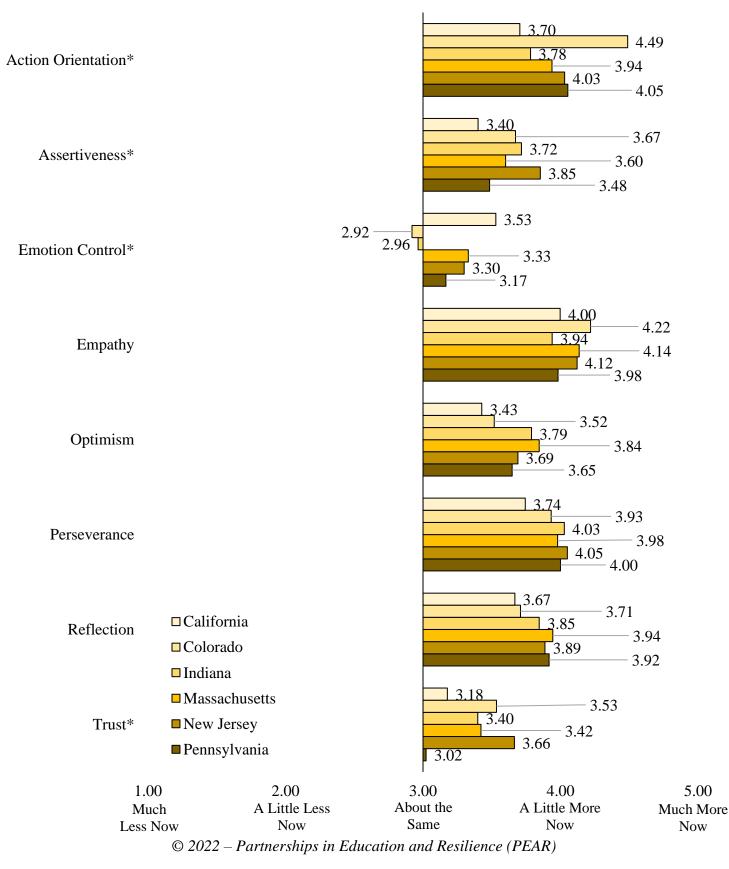




Figure 3. Playworks' AmeriCorps Sites (n = 314 youth), Average HSA-RSC Relationships and Learning and School Engagement Outcomes by Region, 2021–2022.

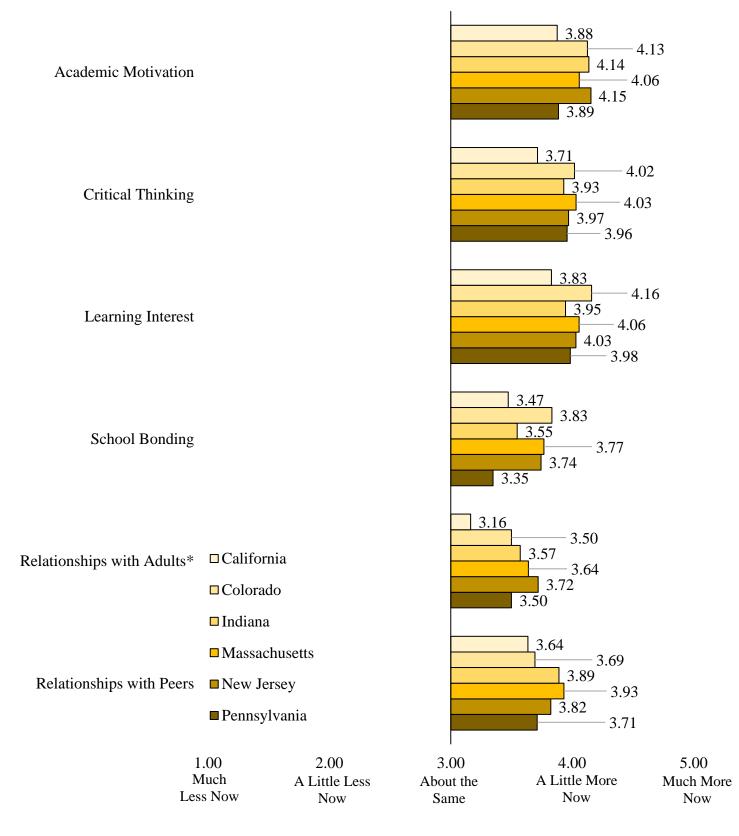
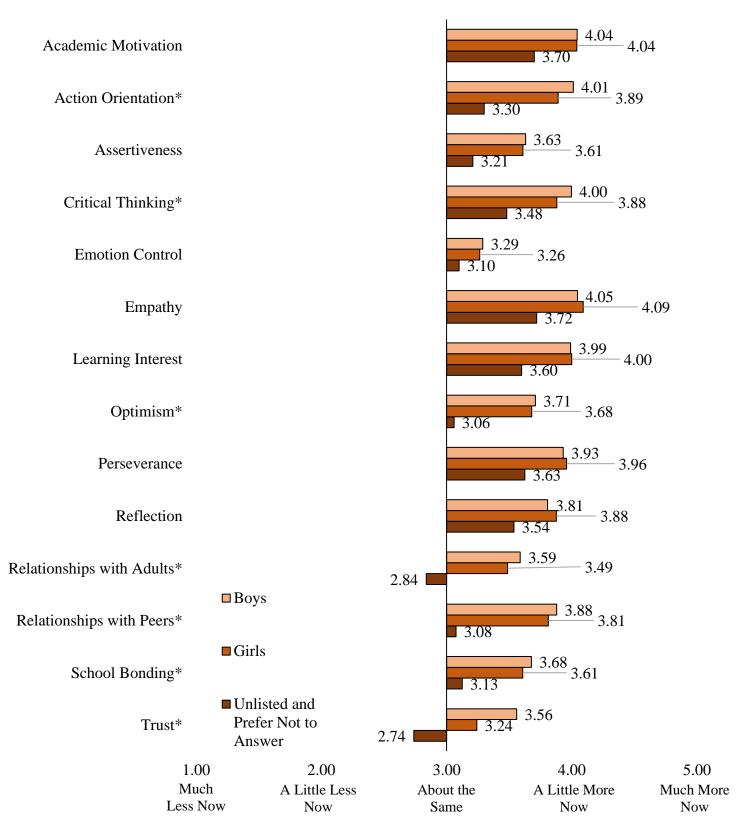




Figure 4. Playworks' AmeriCorps Sites (N = 321 youth), Average HSA-RSC Outcomes by Gender, 2021–2022.



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Figure 5. Playworks' AmeriCorps Sites (n = 296 youth), Average HSA-RSC Outcomes by Grade, 2021–2022.

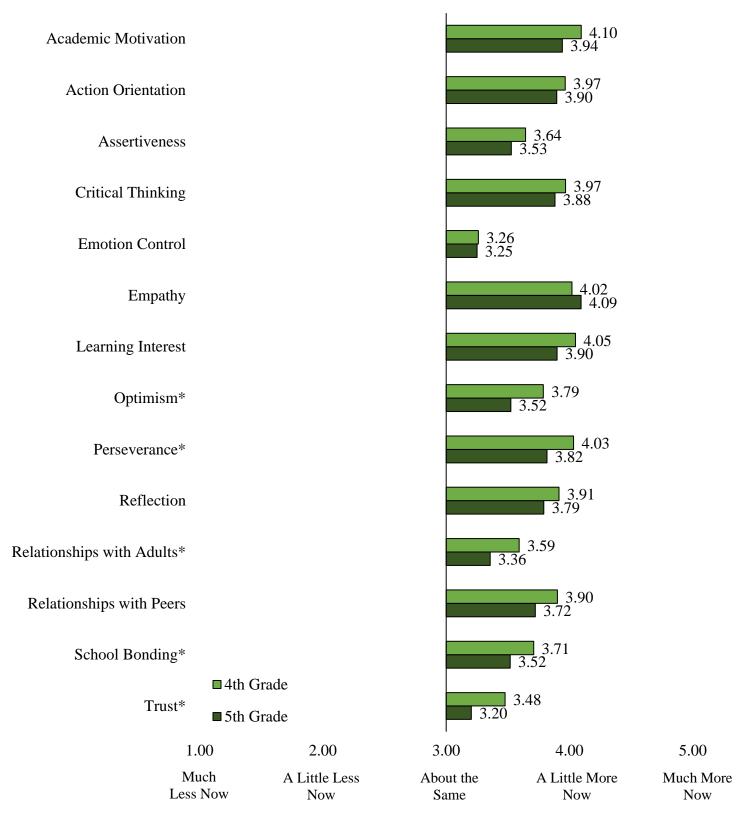




Figure 6. Playworks' AmeriCorps Sites (n = 312 youth), Average HSA-RSC Outcomes by Race/Ethnicity, 2021–2022.

Academic Motivation			4.08 3.91 4.0	
Assertiveness			3.99 3.95 3.8	
Action Orientation			3.55 3.37 3.55	
Critical Thinking*			<u>4.07</u> 3.90	
Emotion Control		3.13	<u>3.43</u> 3.32 3.19	
Empathy			4.05 4.03	
Learning Interest			4.06 3.95 3.87 3.93	5
Optimism			3.79 3.65 3.51 3.49	
Perseverance			4.06 3.83 3.87	
Reflection*			4.00 3.82 3.59	
Relationships with Adults	□African American, Black		<u>3.60</u> 3.44 <u>3.46</u> 3.27	
Relationships with Peers	Latino or Hispanic		3.93 3.67 3.62	
School Bonding	□ Other Races/Ethnicities		3.64 3.65 3.53	
Trust	■ Prefer not to answer		.34 3.39 3.39 3.35	
Mu Less		3.00 About the Same on and Resilience	4.00 A Little More Now e (PEAR)	5.00 Much More Now



Playworks HSA-RSC Statistical Report: Overall Sample

The Holistic Student Assessment (HSA) Retrospective Self-Change (RSC) was administered to 710 Playworks youth in Fall 2021 – Spring 2022. This document provides results from statistical analyses conducted for the overall sample, as well as by region, program model, gender, grade, and race/ethnicity. For sample sizes greater than or equal to 20, parametric tests were performed. Statistical tests were not performed for any group with 19 or fewer responses.

Statistical Analysis

On the Retrospective Self-Change format of the HSA, youth responded to items by selecting the degree of change they observed in themselves since the beginning of their program. Youth self-reported mean change scores were analyzed to see if they differed significantly from 3, a rating of "About the Same." If the *p*-value of a given scale was below 0.05, its mean change score was significant and unlikely due to chance. Mean change scores greater than 3 indicate positive change; those less than 3 indicate negative change, and those equal to three indicate no change.

A one-sample *t*-test was conducted to analyze outcomes for the entire sample. Then, outcomes were analyzed by region. To analyze differences between regions, a one-way ANOVA *f*-test was conducted. To analyze differences within each region, a one-sample *t*-test was conducted. Next, outcomes were analyzed by program model. To analyze differences between program models, an independent two-sample *t*-test was conducted. To analyze differences within each program model, a one-sample *t*-test was conducted. Then, outcomes were analyzed by gender. To analyze differences between genders, a one-way ANOVA *f*-test was conducted. To analyze differences were analyzed by grade. To analyze differences between grades, an independent two-sample *t*-test was conducted. Next, outcomes were analyzed by grade. To analyze differences between grades, an independent two-sample *t*-test was conducted. To analyze differences were analyzed by grade. To analyze differences within each grade, a one-sample *t*-test was conducted. Lastly, outcomes were analyzed by race/ethnicity. To analyze differences between race/ethnicity, a one-way ANOVA *f*-test was conducted. To analyze differences within each grade, a one-sample *t*-test was conducted. Lastly, outcomes were analyzed by race/ethnicity. To analyze differences within each race/ethnicity, a one-sample *t*-test was conducted.

For scales in which significant mean scores were identified using one-sample *t*-tests, the direction of that difference was then checked. For independent two-sample *t*-tests, and one-way ANOVA *f*-tests, additional post hoc analyses would be required to identify the patterns of differences between groups.

Findings

Overall Sample Results:

Youth reported statistically significant positive change (i.e., mean score greater than 3.0) on all 14 scales on this survey (p's < 0.001). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

To visualize the overall findings, a graph (**Figure 1**) is included in the Appendix. Scales with significant differences are marked with asterisks. **Figure 1** represents the average retrospective self-change for all 14 HSA scales. A similar visualization is available on Playworks' "HSA Live RSC Dashboard" in Qualtrics.



Region Analysis:

Between Group Results

There were statistically significant differences between regions on 9 of the 14 scales of this survey (p's < 0.05). <u>These scales were:</u> action orientation, assertiveness, emotion control, empathy, perseverance, reflection, relationships with adults, school bonding, and trust. Between regions, the following 5 scales <u>did not demonstrate significant differences:</u> academic motivation, critical thinking, learning interest, optimism, and relationships with peers.

Figure 2 and Figure 3 represent the average HSA retrospective self-change scores by region. Scales with significant differences are marked with asterisks.

Within Group Results

<u>California</u> youth (n = 75) reported statistically significant positive change on 12 of the 14 scales on this survey (*p*'s < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with peers, and school bonding. The following 2 scales <u>did not demonstrate significant differences:</u> relationships with adults and trust.

<u>Colorado</u> youth (n = 22) reported statistically significant positive change on 13 of the 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust. The following scale <u>did not demonstrate significant differences:</u> emotion control.

<u>Indiana</u> youth (n = 55) reported statistically significant positive change on 13 of the 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust. The following scale <u>did not demonstrate significant differences:</u> emotion control.

<u>Massachusetts</u> youth (n = 165) reported statistically significant positive change on all 14 scales on this survey (*p*'s < 0.001). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

<u>Michigan</u> youth (n = 144) reported statistically significant positive change on all 14 scales on this survey (p's < 0.001). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

<u>New Jersey</u> youth (n = 40) reported statistically significant positive change on 13 of the 14 scales on this survey (p's < 0.001). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, empathy, learning interest, optimism,



perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust. The following scale <u>did not demonstrate significant differences:</u> emotion control.

<u>Pacific Northwest</u> youth (n = 109) reported statistically significant positive change on all 14 scales on this survey (p's < 0.001). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

<u>Pennsylvania</u> youth (n = 69) reported statistically significant positive change on 12 of the 14 scales on this survey (p's < 0.001). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, and school bonding. The following 2 scales <u>did not demonstrate significant differences:</u> emotion control and trust.

Program Model Analysis:

Between Group Results

There were statistically significant differences between program models on 2 of the 14 scales of this survey (p's < 0.05). <u>These scales were:</u> emotion control and school bonding. Between program models, the following 12 scales <u>did not demonstrate significant</u> <u>differences:</u> academic motivation, action orientation, assertiveness, critical thinking, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, and trust.

Figure 4 represents the average HSA retrospective self-change scores by program model. Scales with significant differences are marked with asterisks.

Within Group Results

Youth in <u>Coach</u> programs (n = 321) reported statistically significant positive change on all 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

Youth in <u>TeamUp</u> programs (n = 389) reported statistically significant positive change on all 14 scales on this survey (*p*'s < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

Gender Analysis:

Between Group Results

There were statistically significant differences between genders on 11 of the 14 scales of this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust. Between genders, the following



3 scales <u>did not demonstrate significant differences</u>: emotional control, empathy, and learning interest.

Figure 5 represents the average HSA retrospective self-change scores by gender. Scales with significant differences are marked with asterisks.

Within Group Results

<u>Girls</u> (n = 376) reported statistically significant positive change on all 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

<u>Boys</u> (n = 277) reported statistically significant positive change on all 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

Youth who <u>preferred not to answer</u> (n = 34) reported statistically significant positive change on 8 of the 14 scales on this survey (*p*'s < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking empathy, learning interest, perseverance, and reflection. The following 6 scales <u>did not demonstrate significant</u> <u>differences:</u> emotion control, optimism, relationships with adults, relationships with peers, school bonding, and trust.

Grade Analysis:

Between Group Results

There were significant differences between grades on 7 of the 14 scales of this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, optimism, perseverance, relationships with adults, school bonding, and trust. Between grades, the following 7 scales <u>did not demonstrate significant differences</u>: assertiveness, critical thinking, emotion control, empathy, learning interest, reflection, and relationships with peers.

Figure 6 represents the average HSA retrospective self-change scores by grade. Scales with significant differences are marked with asterisks.

Within Group Results

<u>Fourth graders</u> (n = 363) reported statistically significant positive change on all 14 scales on this survey (p's < 0.05). <u>These scales were</u>: academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

<u>Fifth graders</u> (n = 265) reported statistically significant positive change on all 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism,



perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

Race / Ethnicity Analysis:

Between Group Results

There were statistically significant differences between race/ethnicity on 1 of the 14 scales of this survey (p's < 0.05). <u>This scale was:</u> emotion control. Between race/ethnicity, the following 13 scales <u>did not demonstrate significant differences:</u> academic motivation, action orientation, assertiveness, critical thinking, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

Figure 7 and **Figure 8** represent the average HSA retrospective self-change scores by race/ethnicity. The scale with significant differences is marked with an asterisk.

Within Group Results

<u>African American, Black</u> youth (n = 194) reported statistically significant positive change on all 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

<u>American Indian, Native American, or Alaskan Native</u> youth (n = 28) reported statistically significant positive change on all 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

<u>Asian, Asian-American</u> youth (n = 37) reported statistically significant positive change on all 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

<u>Latino or Hispanic</u> youth (n = 163) reported statistically significant positive change on all 14 scales on this survey (*p*'s < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

<u>White, Caucasian (non-Hispanic)</u> youth (n = 82) reported statistically significant positive change on all 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

Youth identifying as an <u>unlisted race/ethnicity</u> (n = 41) reported statistically significant positive change on all 14 scales on this survey (p's < 0.05). <u>These scales were</u>: academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy,



learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

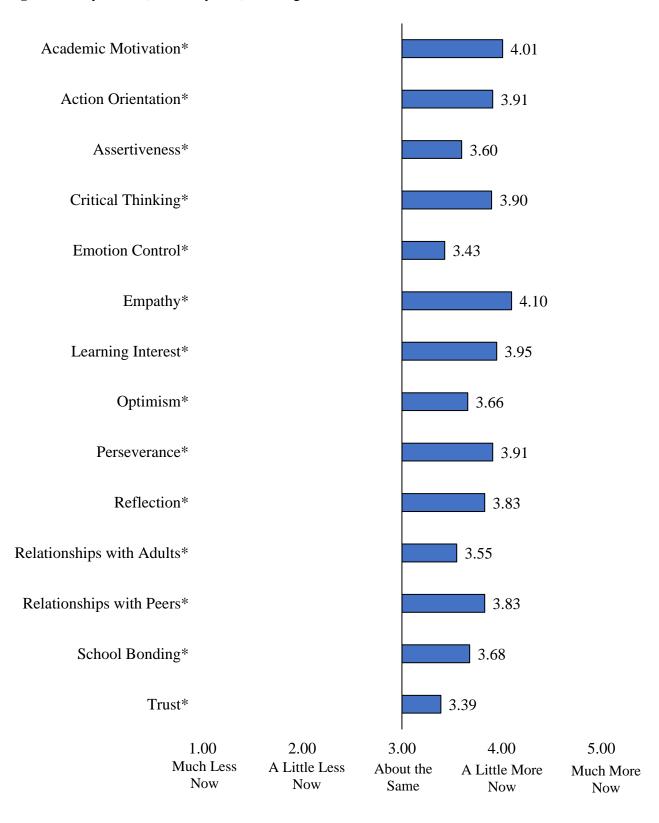
Youth who <u>preferred not to answer</u> (n = 98) reported statistically significant positive change on all 14 scales on this survey (p's < 0.05). <u>These scales were:</u> academic motivation, action orientation, assertiveness, critical thinking, emotion control, empathy, learning interest, optimism, perseverance, reflection, relationships with adults, relationships with peers, school bonding, and trust.

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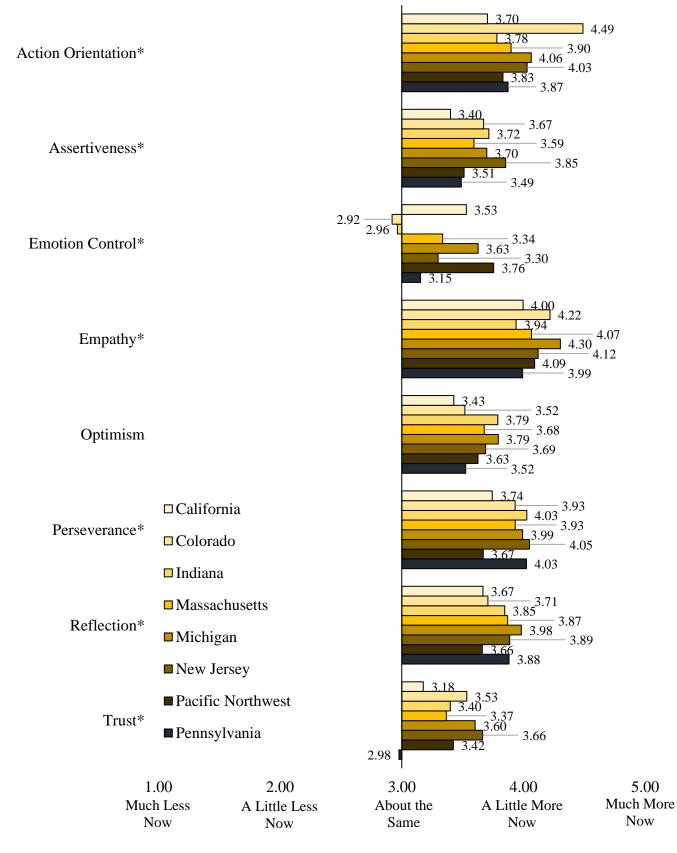
Appendix

Figure 1. Playworks (N = 710 youth), Average HSA-RSC Outcomes, 2021–2022.





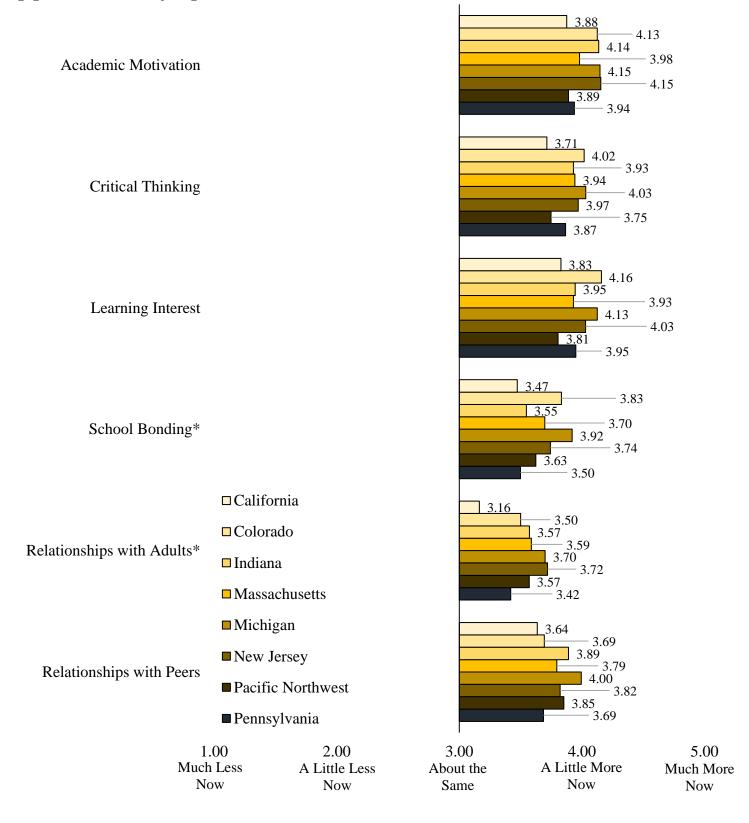




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Figure 3. Playworks (N = 710 youth), Average HSA-RSC Relationships and Learning and School Engagement Outcomes by Region, 2021-2022.



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Figure 4. Playworks (N = 710 youth), Average HSA-RSC Outcomes by Program Model, 2021–2022.

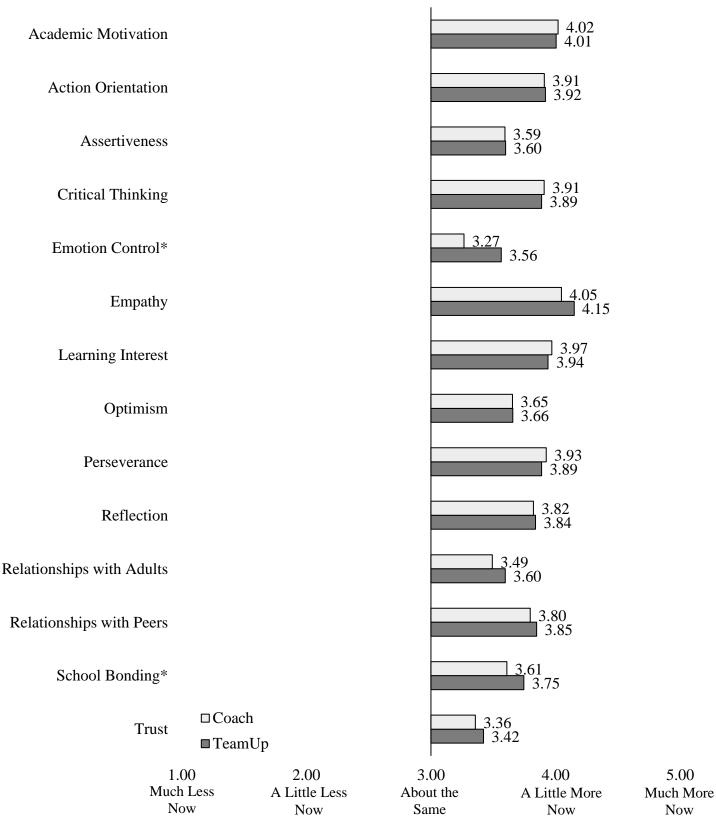
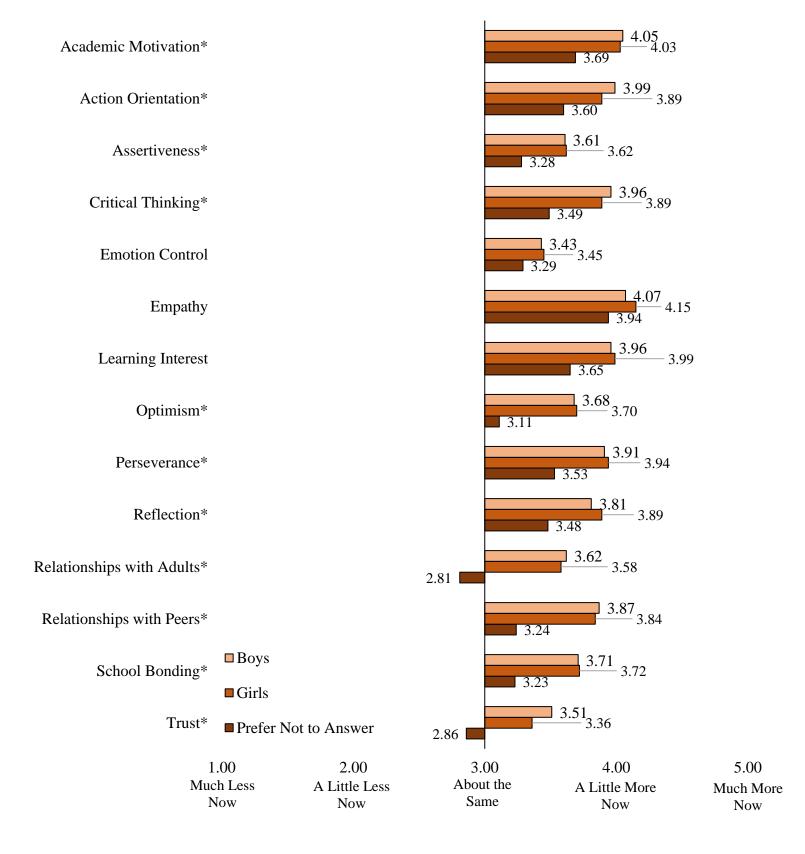




Figure 5. Playworks (n = 696 youth), Average HSA-RSC Outcomes by Gender, 2021–2022.



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Figure 6. Playworks (n = 629 youth), Average HSA-RSC Outcomes by Grade, 2021–2022.

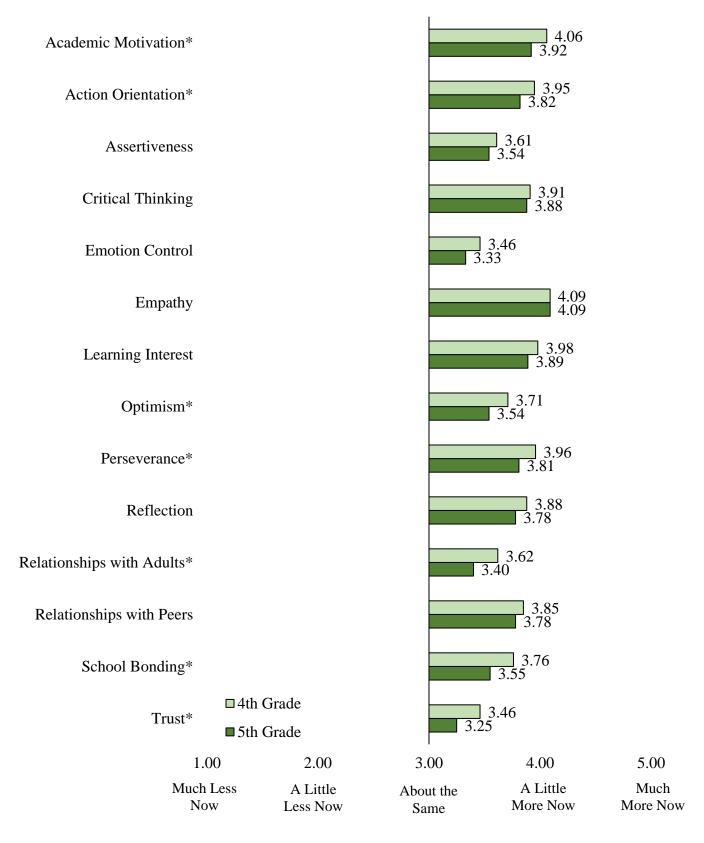




Figure 7. Playworks (n = 644 youth), Average HSA-RSC Resiliency Outcomes by Race/Ethnicity, 2021–2022.

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Action Orientation			3.97 3.80 3.81 3.91 3.92 3.92	
Assertiveness			3.68 3.50 3.50 3.51 3.58 3.58 3.50	
Emotion Control*			3.59 3.58 3.68 3.62 3.41	
Empathy			4.07 4.00 4.20 4.19	
Optimism			3.75 3.73 3.57 3.56 3.71 3.6 3.57 5.57 5	
Perseverance	□African American, Black		4.02 3.74 3.89 3.85 4.01	
Reflection	 American Indian, Native Arror Alaskan Native Asian, Asian-American Latino or Hispanic 		3.91 3.93 3.93 3.93 3.93 3.93 3.93 3.93	
Trust	 White, Caucasian (non-Hisp Not listed Prefer not to answer 		33 3.48 3.47 3.47 3.35 3.35 3.35 3.35 3.35 3.35 3.35 3.3	
1.0 Much I Nov	00 2.00 Less A Little	3.00 About the Same	4.00 A Little More Now	5.00 Much More Now



Figure 8. Playworks (n = 644 youth), Average HSA-RSC Relationships and Learning and School Engagement Outcomes by Race/Ethnicity, 2021–2022.

