

# **Revved Up Kids Protected While Connected Online Safety Program Analysis**

## **PROGRAM DESCRIPTION**

Revved Up Kids Protected While Connected training was developed for tweens and teens in 5<sup>th</sup> – 8<sup>th</sup> grade. Program goals include raising participant awareness of online dangers and providing information and tools that will help participants stay safer.

### **Program modules:**

Guarding Online Privacy – participants learn how their private information is accessed and used by marketers and criminals, and steps they can take to safeguard their personal data.

Managing Online Reputation – participants learn how to create a respectable online presence, the online activities that can compromise reputation, and why online reputation is as important as real life reputation

Staying Safe Online – participants learn how predators, traffickers and pornographers approach and take advantage of victims, how to recognize the behavioral red flags that signal an online predator, and how to respond if they encounter online pornography

### **Program delivery:**

Protected While Connected is facilitated by a child safety expert from Revved Up Kids. The program is delivered virtually via Zoom or in person. Each module of the program lasts approximately 30 minutes. The modules include a pre and post test with True/False statements. Participants are also given an “I don’t know” option and they are encouraged to only answer True or False if they are 100% confident in their answer.

## **PROGRAM EVALUATION**

The following Program Evaluation was conducted by a graduate student at the University of North Carolina Wilmington School of Psychology.

### **Analysis and Results:**

We analyzed the pre and post-test scores from 82 middle schoolers in grades 6-8. Descriptive statistics for each subject test and the full program can be found in Table 1. Test scores were calculated by adding the number of correct answers for each student.

We ran paired samples *t*-tests using the ‘rstatix’ package in R to evaluate the difference between pre and post tests for each of the three subjects, Reputation, Privacy, and Safety, as well as the full program. Results of each *t*-test can be found in Table 2. There were significant differences in scores between the pre and post tests for the Reputation subject, the Privacy subject, and the Safety subject. Additionally, there was a significant difference in scores between the pre and post tests for the program overall. The differences between each subject’s pre and post-tests are illustrated in Figure 1. The difference between the full program pre and post-tests are illustrated in Figure 2.

**Conclusion/Discussion:**

The difference scores of each of these pre-tests give us confidence that the information presented in the Protected While Connected program is new to the children, and the class structure is effective at changing their knowledge about online safety.

**PROGRAM PLANNING:**

With scientific evidence that the Revved Up Kids Protected While Connected program is effective in its goal of changing participant knowledge and equipping participants to stay safer online, Revved Up Kids will work to expand the reach of the program through school-based partnerships and development turnkey delivery formats that can be accessed by youth-serving organizations and individual families.

**Table 1***Descriptive Statistics of each subject's tests*

Test	N	Mean	Standard Deviation
Reputation Pre-Test	82	4.05	1.04
Reputation Post-Test	82	4.72	0.63
Privacy Pre-Test	82	3.79	1.83
Privacy Post-Test	82	6.05	1.2
Safety Pre-Test	82	6.05	1.86
Safety Post-Test	82	8.44	1.31
<b>Full Program Pre-Test</b>	<b>82</b>	<b>13.89</b>	<b>3.73</b>
<b>Full Program Post-Test</b>	<b>82</b>	<b>20.22</b>	<b>2.58</b>

*Note.* Tests do not have the same number of questions. The Reputation test includes 5 questions, the Privacy test includes 8 questions, and the Safety test includes 9 questions. The full program total is 22 questions.

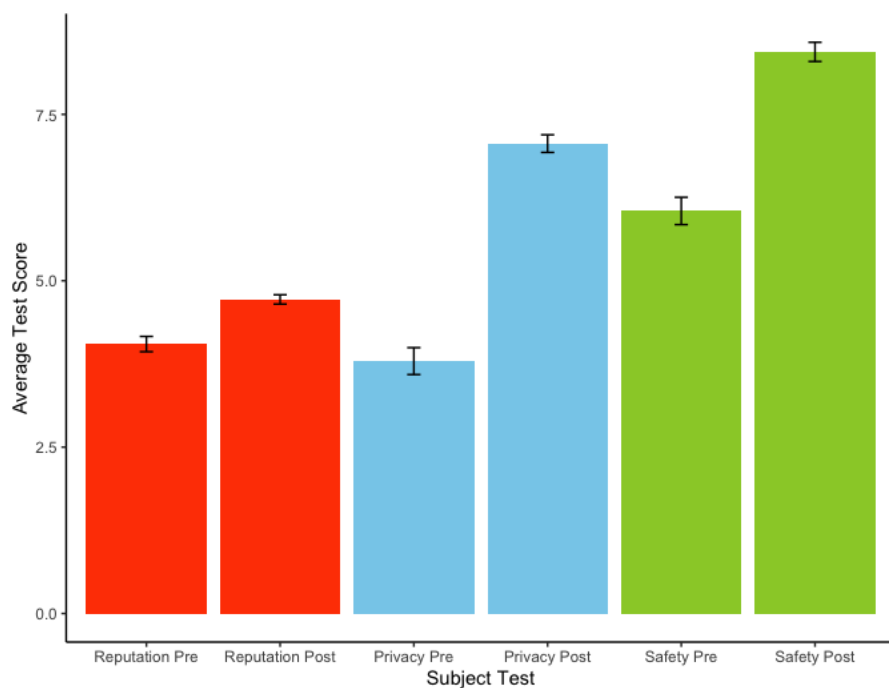
**Table 2***Paired Samples t-test Results for Subject Tests and Full Program*

Test	Mean Difference	<i>t</i> (81)	<i>p</i>	<i>d</i>
Reputation	0.67	6.72	< 0.001	0.74
Privacy	3.27	17.3	< 0.001	1.91
Safety	2.39	11.9	< 0.001	1.31
<b>Full Program</b>	<b>6.33</b>	<b>19.1</b>	<b>&lt; 0.001</b>	<b>2.11</b>

*Note.* Post-hoc power analyses using the 'pwr' package in R reported the power for each of the four *t*-tests at 100%.

**Figure 1**

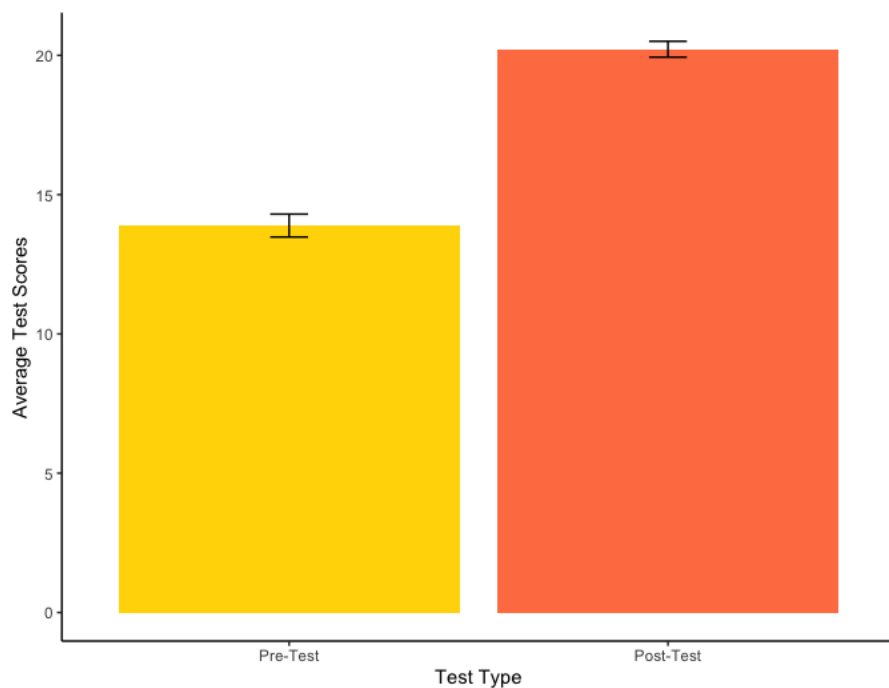
*Subject Pre and Post Test Scores*



*Note.* Subject tests include a different number of questions. The Reputation test includes 5 questions, the Privacy test includes 8 questions, and the Safety test includes 9 questions. Error bars are Standard Error.

**Figure 2**

*Full Program Pre and Post-Tests*



*Note.* Error bars represent standard error.