

Evaluate knowledge related to the topic of Research Strategies (Field Study, Field Experiment, Experimental Simulations, Laboratory Experiments, Judgment Studies, Sampling Studies, Formal Theory, and Computer Simulations)		
Participant	Before the course	After the course
P1	1	3
P2	2	4
P3	3	4,5
P4	1	4
P5	1	4
P6	2	4
P7	1	4
P8	0	3
P9	0	3
P10	0	2
P11	1	3
P12	1	3
P13	3	5
P14	1	3
P15	0	2
P16	0	2
P17	2	4
P18	0	3
P19	3	5
P20	0	3
P21	4	5
P22	1	4,5
P23	1	3
P24	0	2
P25	1	4
P26	1	4
P27	0	3
P28	2	4
P29	3	3
P30	2	3,5
P31	3	5

Resultado do Teste Não Paramétrico - Wilcoxon

Paired t-test: quarta-feira, 28 de junho de 2023 23:35:03

Data source: Data 1 in Q3eQ4

Normality Test (Shapir Failed (P<0,001) (P < 0,050)

Test execution ended by user request, Signed Rank Test begun

Wilcoxon Signed Rank quarta-feira, 28 de junho de 2023 23:35:03

Data source: Data 1 in Q3eQ4

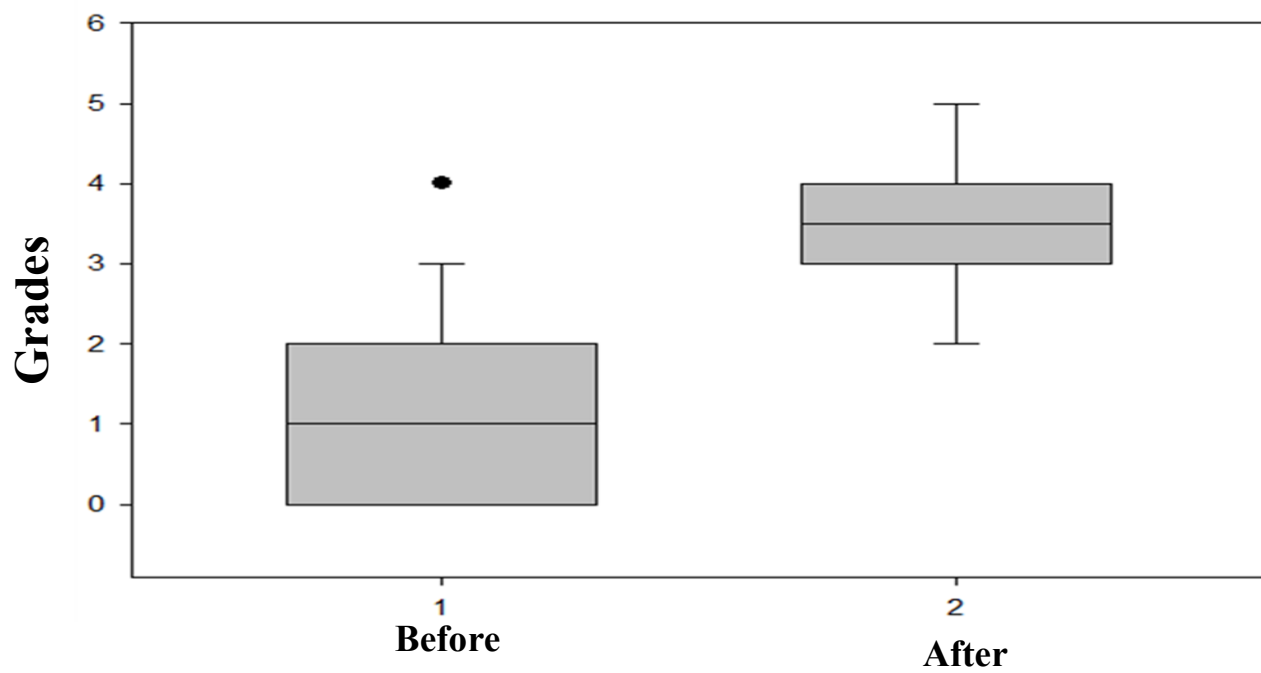
Group	N	Missing	Median	25%	75%
Before	31	0	1	0	2
After	31	0	3,5	3	4

W= 465,000 T+ = 465,000 T-= -0,000
Z-Statistic (based on positive ranks) = 4,893

Yates continuity correction option applied to calculations.

(P = <0,001)

The change that occurred with the treatment is greater than would be expected by chance;
there is a statistically significant difference (P = <0,001).



Assess knowledge related to the RSL and MSL topic		
Participant	Before the course	After the course
P1	0	4
P2	0	4
P3	2	4,5
P4	1	3
P5	0	4
P6	3	5
P7	1	3
P8	0	5
P9	0	4
P10	0	4
P11	0	3
P12	1	3,5
P13	0	4
P14	2	4
P15	0	3
P16	0	3,5
P17	2	4
P18	0	2
P19	5	5
P20	0	5
P21	2	4
P22	3	5
P23	0	4
P24	0	4
P25	0	5
P26	2	4
P27	0	4
P28	3	4
P29	3	3
P30	1	3
P31	2	5

Result of the Non-Parametric Test - Wilcoxon

Data source: Data 1 in Q5eQ6

Normality Test (Shapiro-V Failed (P=0,017) (P < 0,050)

Test execution ended by user request, Signed Rank Test begun

Wilcoxon Signed Rank Test sábado, 24 de junho de 2023 00:03:45

Data source: Data 1 in Q5eQ6

Group	N	Missing	Median	25%	75%
Before	31	0	0	0	2
After	31	0	4	3,5	4,5

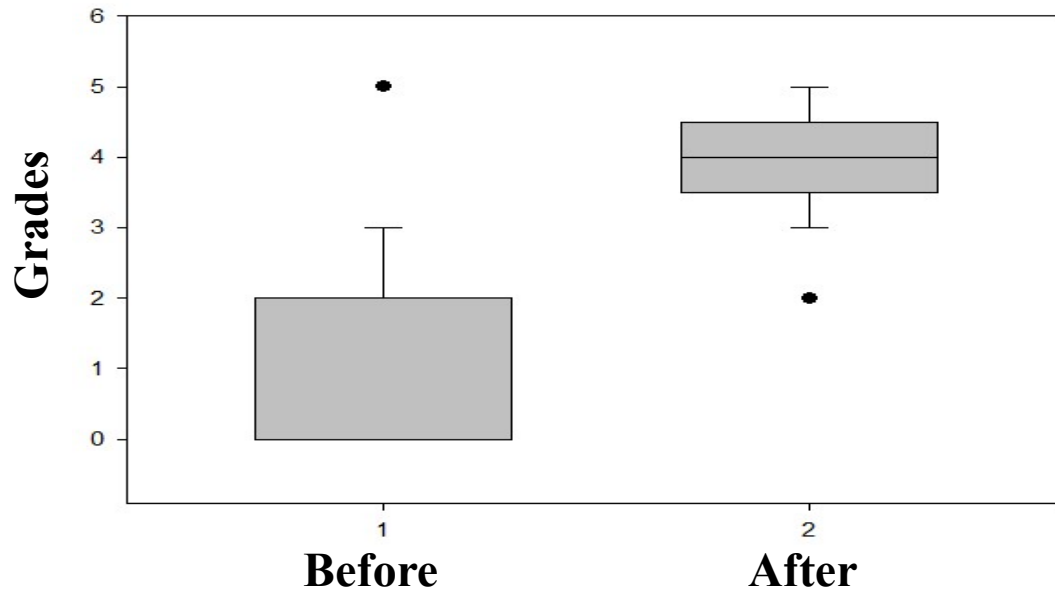
W= 435,000 T+ = 435,000 T-= -0,000

Z-Statistic (based on positive ranks) = 4,744

Yates continuity correction option applied to calculations.

($P = <0,001$)

The change observed with the treatment is greater than would be expected by chance;
there is a statistically significant difference ($P = <0.001$)



Assess knowledge regarding the topic of the Controlled Experiment		
Participant	Before the course	After the course
P1	1	3
P2	1	3
P3	2,5	4,5
P4	1	4
P5	1	4
P6	3	4
P7	2	4
P8	0	3
P9	0	4
P10	0	3
P11	0	2
P12	1,5	4,1
P13	1	4
P14	1	3
P15	0	3
P16	0	3
P17	1	3
P18	1	3
P19	2	3
P20	0	3
P21	3	4
P22	2	4,5
P23	2	4
P24	0	3
P25	0	4
P26	3	4
P27	1	3
P28	1	4
P29	1	3
P30	2	3,5
P31	0	4

Resultado do Teste Não Paramétrico - Wilcoxon

Paired t-test: sábado, 24 de junho de 2023 00:31:40

Data source: Q7eQ8

Normality Test (Shapiro Failed (P=0,009) (P < 0,050)

Test execution ended by user request, Signed Rank Test begun

Wilcoxon Signed Rank sábado, 24 de junho de 2023 00:31:40

Data source: Q7eQ8

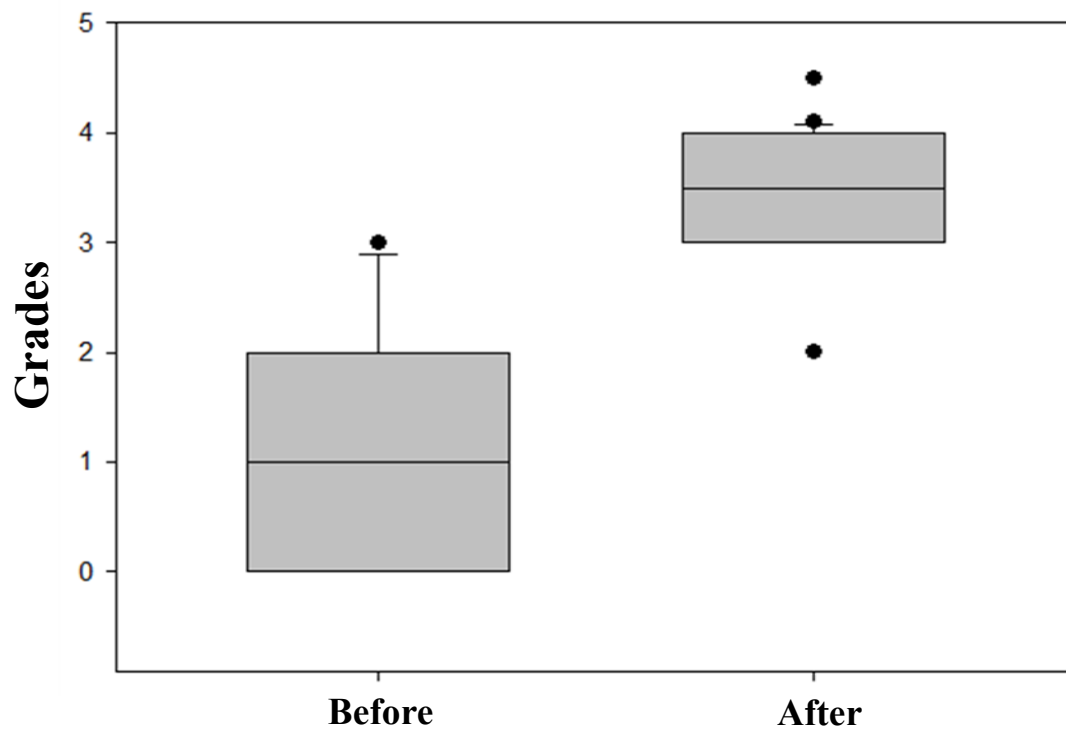
Group	N	Missing	Median	25%	75%
Before	31	0	1	0	2
After	31	0	3,5	3	4

W= 496,000 T+ = 496,000 T-= -0,000
Z-Statistic (based on positive ranks) = 4,907

Yates continuity correction option applied to calculations.

(P = <0,001)

The change observed with the treatment is greater than would be expected by chance;
there is a statistically significant difference (P = <0.001)



Evaluate the knowledge related to the topic of the Survey		
Participant	Before the course	After the course
P1	1	3
P2	3	5
P3	2	4,8
P4	1	4
P5	2	4
P6	0	4
P7	2	4
P8	2	5
P9	0	4
P10	0	4
P11	2	4
P12	0,5	4
P13	3	5
P14	1	4
P15	2	4
P16	0	2,5
P17	2	4
P18	1	3
P19	1	5
P20	0	3
P21	1	3
P22	0	4,5
P23	1	4
P24	1	4
P25	2	5
P26	3	4
P27	2	4
P28	0	5
P29	2	4
P30	2,5	3,5
P31	3	5

Resultado do Teste Não Paramétrico - Wilcoxon

Paired t-test: sábado, 24 de junho de 2023 00:46:32

Data source: Q9eQ10

Normality Test (Shapiro-Wil Failed (P=0,008) (P < 0,050)

Test execution ended by user request, Signed Rank Test begun

Wilcoxon Signed Rank Test sábado, 24 de junho de 2023 00:46:32

Data source: Q9eQ10

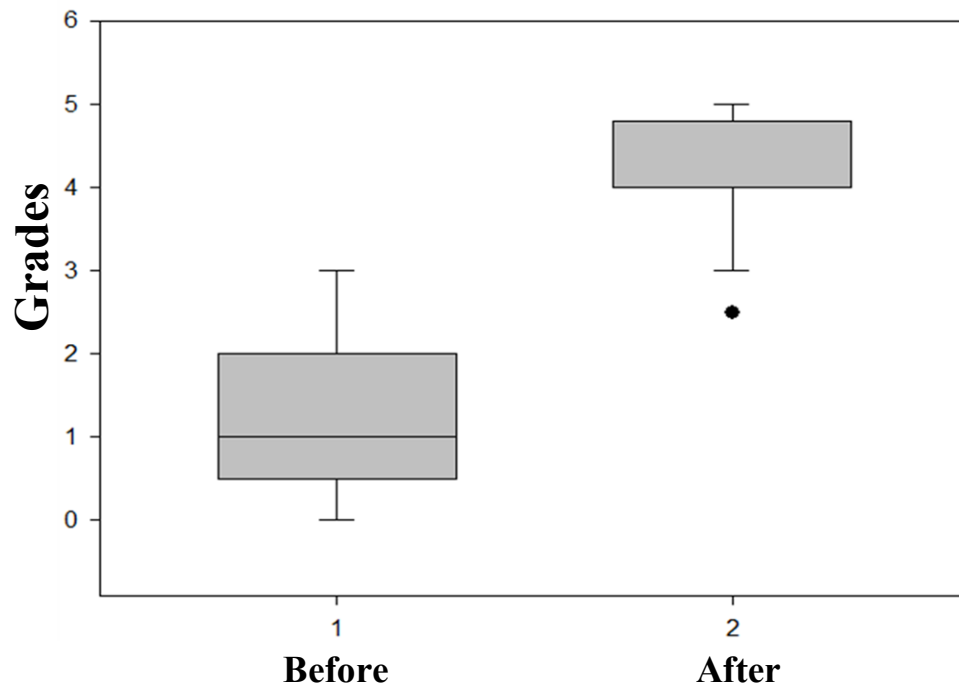
Group	N	Missing	Median	25%	75%
Before	31	0	1	0,5	2
After	31	0	4	4	4,8

W= 496,000 T+ = 496,000 T-= -0,000
Z-Statistic (based on positive ranks) = 4,911

Yates continuity correction option applied to calculations.

(P = <0,001)

The change that occurred with the treatment is greater than would be expected by chance;
there is a statistically significant difference (P = <0,001).



Assess your knowledge regarding Experimental Studies		
Participant	Before the course	After the course
P1	1	4
P2	4	4
P3	3	4,5
P4	1	4
P5	1	4
P6	4	5
P7	1	4
P8	0	4
P9	0	4
P10	0	3
P11	0	3
P12	1	3,5
P13	2	4
P14	2	4
P15	0	3
P16	0	2
P17	2	4
P18	0	3
P19	2	4
P20	0	3
P21	3	5
P22	2	4,5
P23	2	4
P24	1	3
P25	1	5
P26	2	4
P27	1	3
P28	1	4
P29	3	4
P30	1	3
P31	1	4

Resultado do Teste Não Paramétrico - Wilcoxon

Paired t-test: sábado, 24 de junho de 2023 00:52:44

Data source: Q11eQ21

Normality Test (Shapiro-Wilk Failed (P=0,011) (P < 0,050)

Test execution ended by user request, Signed Rank Test begun

Wilcoxon Signed Rank Test sábado, 24 de junho de 2023 00:52:44

Data source: Q11eQ12

Group	N	Missing	Median	25%	75%
Before	31	0	1	0	2
After	31	0	4	3	4

W= 465,000 T+ = 465,000 T-= -0,000
Z-Statistic (based on positive ranks) = 4,840

Yates continuity correction option applied to calculations.

(P = <0,001)

The change that occurred with the treatment is greater than would be expected by chance;
there is a statistically significant difference (P = <0,001).

