**The Graphical Abstract**

***Compering Effects of Two Different Explicit–Reflective Instructions on Pre-School Prospective Teachers’ View about Nature of Science and Scientific Knowledge***

***Table 4*** *Independent Samples t-test Results of Experimental and Control Group’s Pre-test*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pre-test Results** | **Experimental Group** | | **Control Group** | | **t** | **p** |
| x̄ | **SD** | x̄ | **SD** |
| **NOSS** | 87.09 | 5.817 | 86.53 | 4.433 | .446 | .657 |
| **SKS** | 99.09 | 5.749 | 97.97 | 3.989 | .931 | .355 |

***Table 5*** *Independent Samples t-test Results of Experimental and Control Group’s Post-test*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Post-test Results** | **Experimental Group** | | **Control Group** | | **t** | **p** |
| x̄ | **SD** | x̄ | **SD** |
| **NOSS** | 101.68 | 4.013 | 92.47 | 6.964 | 6.678 | .00 |
| **SKS** | 108.15 | 5.930 | 100.71 | 4.945 | 5.620 | .00 |

***Table 6*** *Independent Samples t-test Results of Experimental and Control Group’s Post-test*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Retention Test Results** | **Experimental Group** | | **Control Group** | | **t** | **p** |
| x̄ | **SD** | x̄ | **SD** |
| **NOSS** | 100.47 | 2.957 | 90.59 | 1.540 | 17.286 | **.00** |
| **SKS** | 106.50 | 4.406 | 99.15 | 1.971 | 8.883 | **.00** |

***Table 7*** *Paired Samples t-test Results of Experimental and Control Group’s Pre-test and Post-test*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Groups** | **Tests** | **NOSS** | | | | ***r*** | **SKS** | | | | ***r*** |
| x̄ | **SD** | **t** | **p** | x̄ | **SD** | **t** | **p** |
| **Experimental Group** | Pre-test | 87.09 | 5.817 | 12.036 | **.00** | **.83** | 99.09 | 5.749 | 6.396 | **.00** | **.61** |
| Post-test | 101.68 | 4.013 | 108.15 | 5.930 |
| **Control Group** | Pre-test | 86.53 | 4.433 | 4.196 | .**00** | **.41** | 98.56 | 3.791 | 2.009 | **.004** | **.24** |
| Post-test | 92.47 | 6.964 | 100.71 | 4.945 |

***Table 8*** *Paired Samples t-test Results of Experimental and Control Group’s Post-test and Retention Test*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Groups** | **Tests** | **NOSS** | | | | **SKS** | | | |
| x̄ | **SD** | **t** | **p** | x̄ | **SD** | **t** | **p** |
| **Experimental Group** | Post-test | 101.68 | 4.103 | 1.411 | .163 | 108.15 | 5.930 | 1.30 | .133 |
| Retention | 100.47 | 2.957 | 106.50 | 4.406 |
| **Control Group** | Post-test | 92.47 | 6.964 | 1.539 | .240 | 100.71 | 4.945 | 1.707 | .095 |
| Retention | 90.59 | 1.540 | 99.15 | 1.971 |