| Author | Design | Participants | Probabilistic sampling | Grade | Age | Language | Random assignment | Assessment counterbalancing | Group balancing |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Pindiprolu et al (2019) | Pretest-posttest design with multiple experimental groupsa | 25 | No | K - 2 | Not reported | English | No | No | No |
| Moser et al (2017) | Quasi-experimental design with pretest-posttest | 29 | Yes | 4 | Not reported | English | Yes | No | Yes |
| Potocki et al (2015) | pretest-posttest design with multiple comparison groupsa | 77 | No | 6 - 7 | 13 | French | Yes | No | No |
| Rosas et al (2017) | Pretest-posttest design with comparison groupa | 87 | Yes | 1 | Not reported | Spanish | Yes | Yes | Yes |
| Saine et al (2010) | Pretest-posttest design with comparison group | 166 | No | 1 - 3 | 7 | Finnish | Yes | - | Yes |
| Callaghan et al | Randomized control trial with pretest-posttest | 98 | No | Not reported | 4 - 6 | English | Yes | No | - |
| Cazzell et al (2017) | Single subject design | 2 | No | Not reported | 9 and 12 | English | - | Yes | - |
| Chai (2017) | Single subject design | 3 | No | Not reported | 4 - 5 | English | No | - | - |
| Schmitt et al (2018) | Randomized control trial with pretest-posttest | 136 | No | PreK - K | 4 - 6 | English | Yes | No | No |
| Comaskey et al (2009) | Pretest-posttest design with multiple experimental groups | 53 | No | K | Not reported | English | Yes | Yes | - |
| Solheim et al (2018) | Pretest-posttest design with comparison group | 744 | No | 1 | 6 | Norwegian | Yes | No | No |
| Ecalle et al (2009) | Randomized control trial with pretest-posttest | 28 | No | 1 | 6 | French | Yes | No | Yes |
| Wood et al (2013) | Single subject design | 4 | No | K | 5 - 6 | English | - | - | - |
| Ecalle et al (2013) | Pretest-posttest design with multiple experimental groups | 27 | No | 2 | 7 | French | Yes | No | No |
| Ecalle et al (2013) | Pretest-posttest design with multiple experimental groups | 18 | No | 1 - 2 | 6 | French | No | No | Yes |
| Kyle et al (2013) | Pretest-posttest design with multiple experimental groupsa | 31 | No | 2 | 6 - 7 | English | No | No | Yes |
| Fan et al (2018) | Case study | 10 | No | Not reported | 8 | English | - | No | - |
| Kleinsz et al (2017) | Pretest-posttest design with multiple experimental groups | 44 | No | 2 | 7 | French | No | No | No |
| Gustafson et al (2015) | Pretest-posttest design with multiple experimental groups | 130 | No | 2 | Not reported | Swedish | Yes | No | Yes |
| Karemaker et al (2010) | Pretest-posttest design | 17 | No | Not reported | 5 - 6 | English | No | No | No |
| Messer et al (2018) | Randomized control trial with pretest-posttest | 78 | No | Not reported | 7 | English | Yes | No | No |

Note: aDesign was inferred.