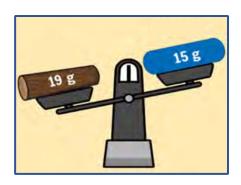
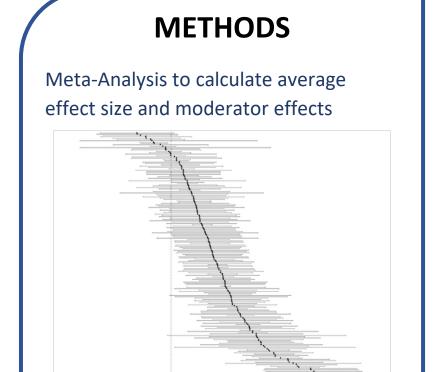
What are effective approaches for teaching floating and sinking?

INTRODUCTION



- Large number of studies on teaching floating and sinking
- Studies have diverse teaching approaches
- What is the average effect size over all studies?
- Which approaches are effective?



FINDINGS

- 191 effect sizes from 69 intervention studies
- Teaching floating and sinking is very effective with a mean effect size of g = 0.85
- It requires multiple hours of instruction time to reach this large effect
- Hands-on experiments are more effective than virtual experiments

Article Title: Teaching and learning floating and sinking: A meta-analysis Authors: Martin Schwichow, Anastasios Zoupides

