

# Model Solution Criteria

- Processed water should be visibly clear with very little observable pollution.
- At least 9/10 of the water processed in each run should be cleared.

# Model Solution Constraints

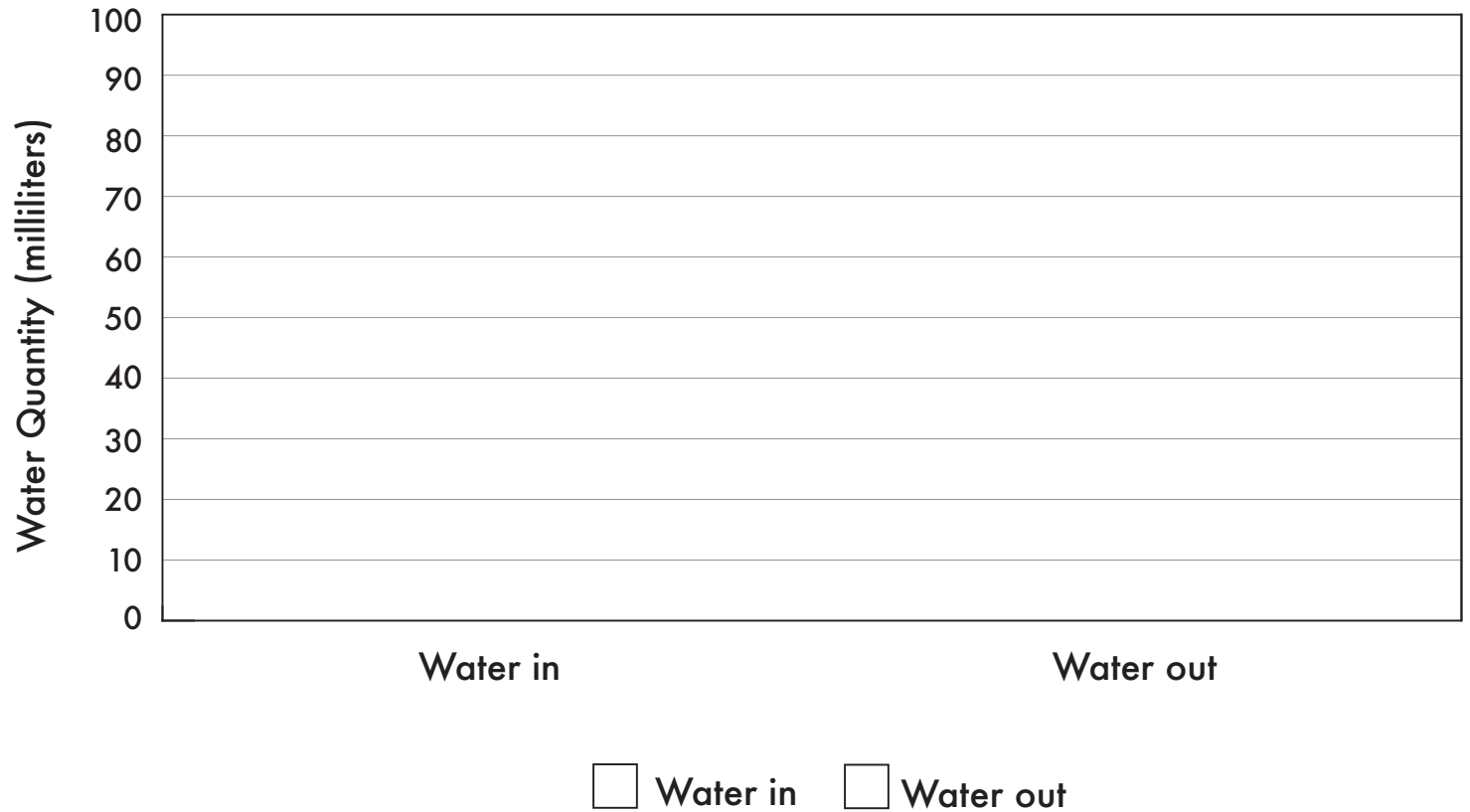
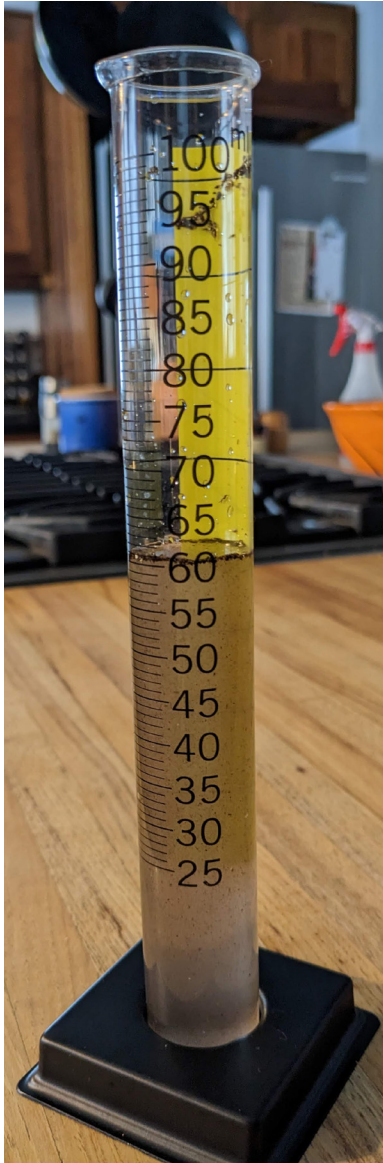
- Each model solution must be built with at least three different materials.
- Only certain amounts of each material can be used in each model.
- Each processing run must start with 100 mL of polluted water and must be completed within 5 minutes.

# Model Testing Conditions

- **Quick test:** Take 5 seconds to pour a water sample into your model.
- **Slow test:** Take 10 seconds to pour a water sample into your model.



# Graphing Your Test Results



# Share Your Test Results

- How did the materials in your model work together to solve the problem?
- How well did your model meet the criteria for success?
- How did the material limits impact your design?
- What failure points did you observe?
- How would your solution work within Earth's systems to
  - ◆ Clear polluted water?
  - ◆ Help protect drinking water during future flooding events?