

PRACTICE

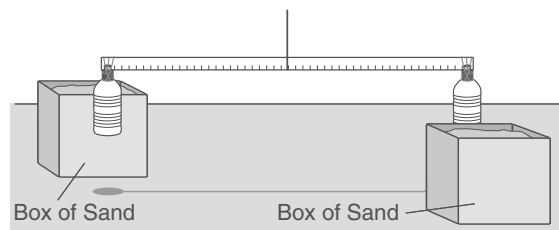
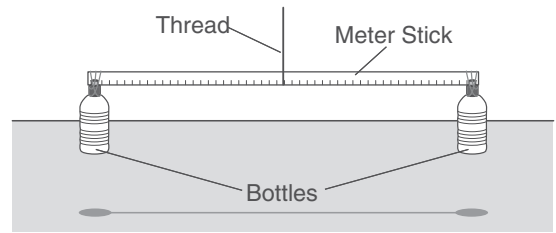
Activity 3: More on Gravitational Interactions

Name _____

Date _____

Class _____

(Questions 1-3) In the video of the Cavendish experiment, a meter stick is suspended by a fine thread. Bottles are attached to each end of the meter stick. To test Newton’s idea about what causes gravity, heavy boxes of sand are brought close to the bottles, but the bottles and boxes do not touch each other. There is an observable gravitational interaction between each box and its bottle.



1. What would you observe if the boxes of sand had much more sand in them? Why? *Answer this question by writing at least two complete sentences.*

2. What would you observe if the boxes of sand were not brought so close to the bottles? Why? *Answer this question by writing at least two complete sentences.*

3. What would happen if the bottles were replaced by bigger bottles with more water in them?
