

Group Task Starting Script

“Hello, I’m [name] and I am going to be starting you on your [first/next] exercise. Do you have any questions before we begin?”

“Alright, this is a group task. In this exercise you will be working together as a group in order to get a coffee can and other materials to, when pushed away from an individual, roll away and then return. You will each have 3-5 minutes to independently examine an example diagram. After that time, I will return and collect the diagrams. Then you will have 15 minutes to work on the task as a group.

“Do you have any questions?”

When it is time for the group task.

“Are you ready to begin the group task?”

“Alright, here are the materials [provide task materials], you will have 15 minutes to work on this task as a group.”

“Do you have any questions?”

When it is time to collect the materials.

“Alright, it has been 15 minutes and you have completed the group task.”

“Thank you for your participation”

Roll Back Can Exercise

Exercise goal:

Construct an apparatus from an empty coffee can and other materials so that when pushed away from an individual, the can not only rolls away but then rolls back as well. When pushing the can to roll away from you the can is using kinetic energy. The goal of this task is to harness potential energy from other materials given so that the can may also roll right back.

Helpful information:

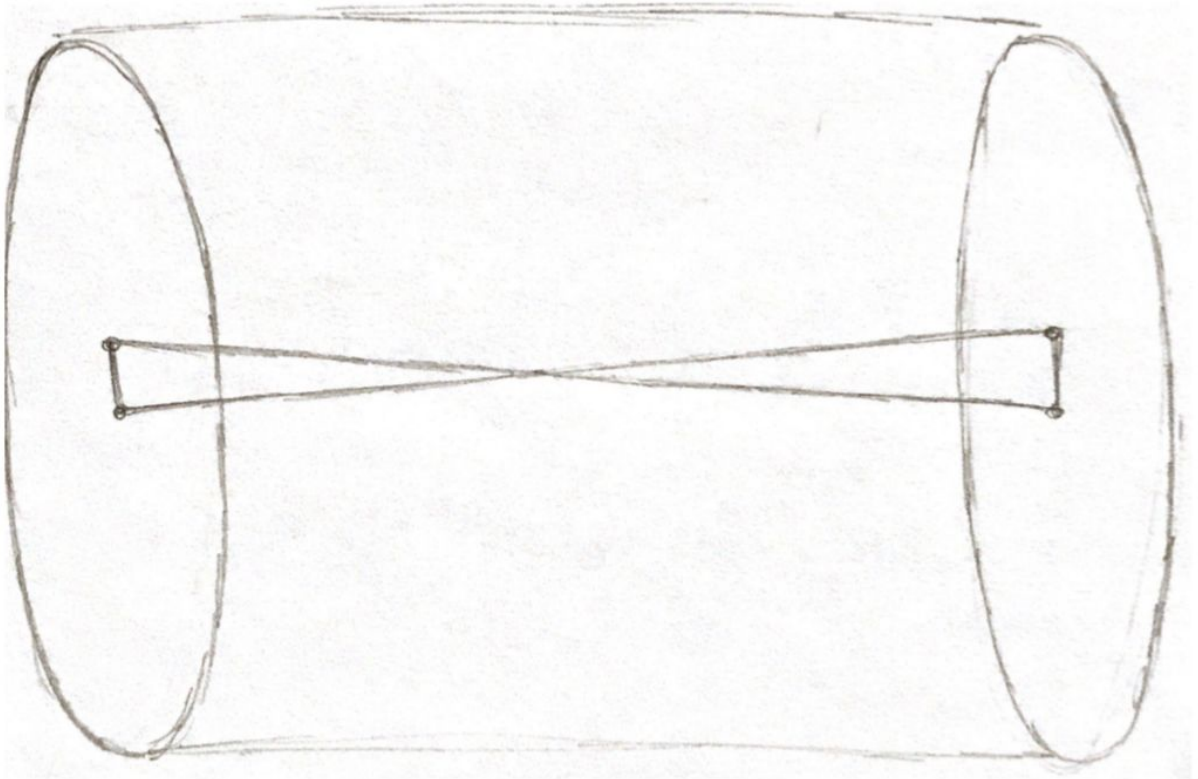
- ***Kinetic energy***: Energy that a body possesses by virtue of being in motion.
- ***Potential energy***: The energy possessed by a body by virtue of its position relative to others, stresses within itself, electric charge, and other factors.
- ***Energy transfer***: The conversion of one form of energy into another, or the movement of energy from one place to another.
- ***Force***: any interaction that, when unopposed, will change the motion of an object.
- ***Work***: measure of energy transfer that occurs when an object is moved over a distance by an external force at least part of which is applied in the direction of the displacement.
- ***Friction***: the resistance to motion of one object moving relative to another.

Your materials:

- Can
- Rubber bands
- Paper clips
- Tape
- Battery
- Nut & bolt
- Washers
- Hammer
- Nail
- Pencil

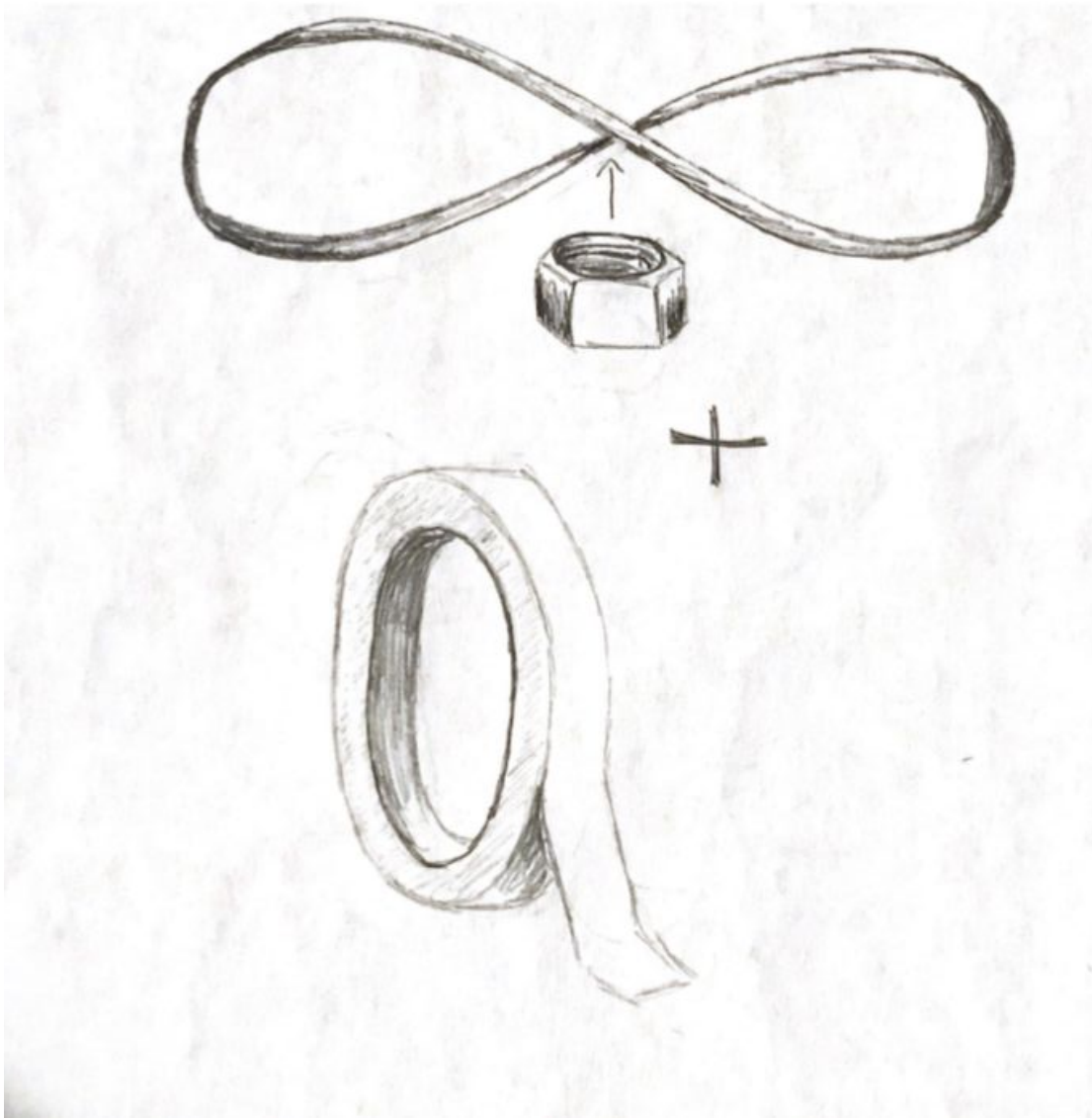
A building diagram has been provided for each participant to study. These diagrams may be helpful in providing ideas for construction of the apparatus. The diagrams will be collected before the building exercise begins.

Diagram



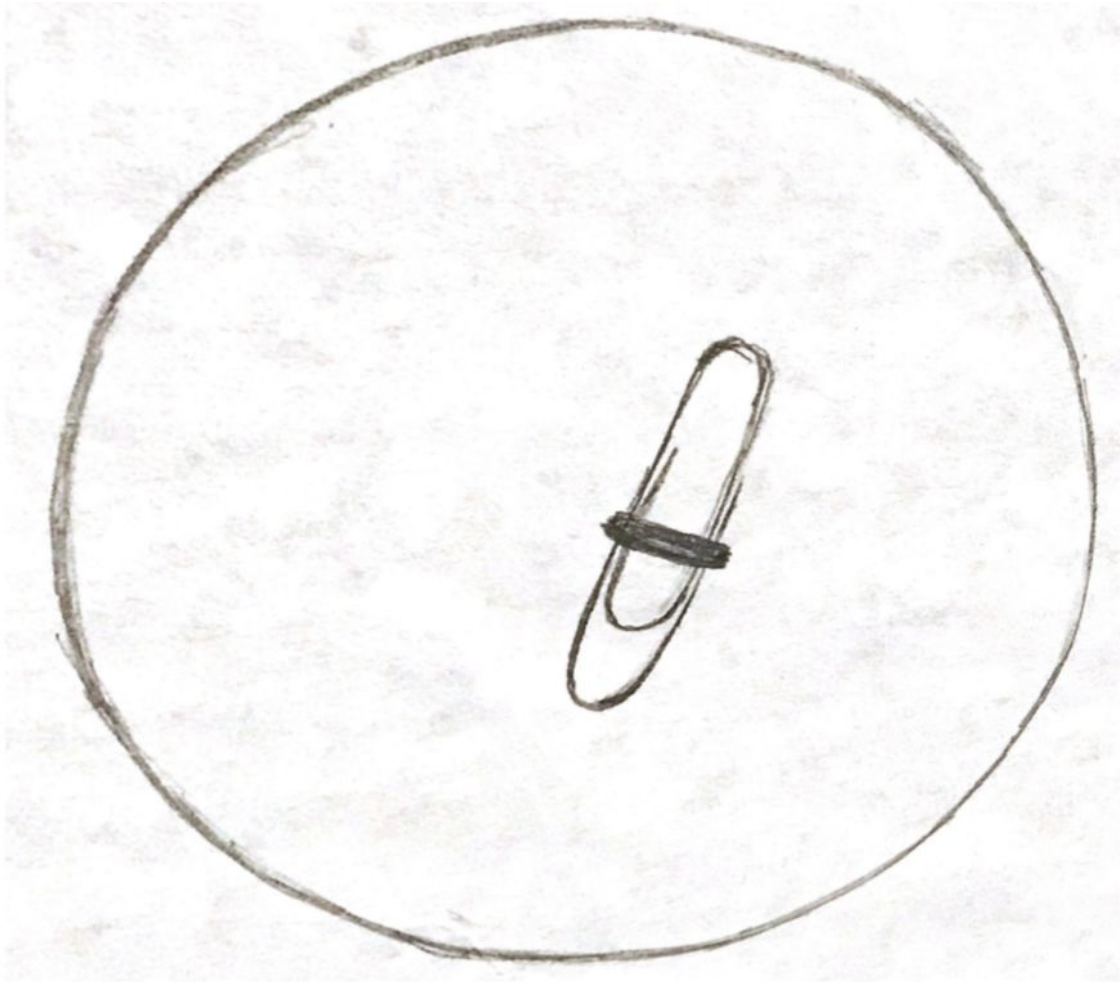
Assessment Center Note: You are the only Departmental Manager who has received this memo.

Diagram



Assessment Center Note: You are the only Departmental Manager who has received this memo.

Diagram



Assessment Center Note: You are the only Departmental Manager who has received this memo.

Diagram



Assessment Center Note: You are the only Departmental Manager who has received this memo.

Group Activity – Roll Back Can – Behaviorally Anchored Rating Scale

___ Verbally references print materials ___ Seeks plan suggestions from team ___ Creates step-by-step plan ___ Communicates plan clearly ___ Physically modifies a provided item ___ Explains planned success ___ Develops >1 plan ___ Modifies apparatus post-completion	___ Acknowledges others' concerns ___ Makes supportive comments ___ Addresses problematic approaches ___ Assigns tasks to group members/self ___ Delegation is specific and clear	___ Completes assigned task on time ___ Completes functional apparatus ___ Uses materials to write or draw plan ___ Verbally acknowledges time limit ___ Integrates 1 or more suggestion from team member(s)	___ Displays politeness to members ___ Suggests rather than demanding ___ Seeks plan suggestions from team ___ Encourages and supports others ___ Attempts multi-participant technique ___ Openly considers team suggestions ___ Seeks consensus before taking action
___ Overall Decision Making Score	___ Overall Influencing Others Score	___ Overall Organization Score	___ Overall Sensitivity Score

Behavioral Notes:

Date _____ Participant Name _____ Rater Name _____