

Identify Mechanical Interactions

Name _____

Date _____

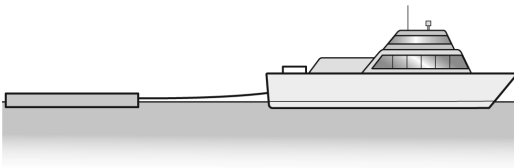
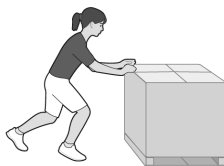
Class _____

Mechanical Interactions

In a mechanical interaction objects touch each other while pushing or pulling on each other over a distance.

Applied Interaction

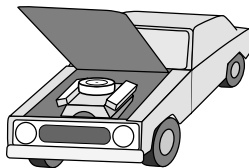
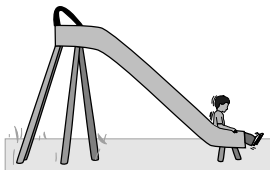
An applied interaction occurs when *two non-elastic (i.e., rigid or stiff) objects push or pull on each other.*



Examples include a person rolling a crate and a tugboat towing a barge.

Friction Interaction

A friction interaction occurs when *two surfaces rub against each other.*



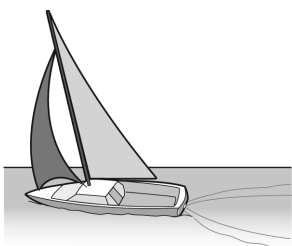
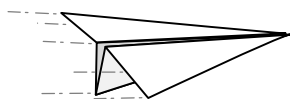
Examples include sliding down a slide and engine parts moving against each other.

Identify Mechanical Interactions

Drag Interaction

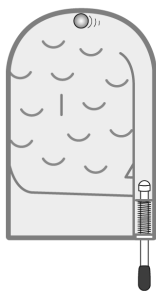
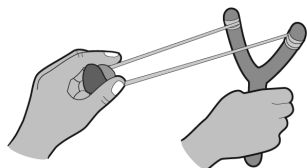
A drag interaction occurs when *an object moves through a gas or liquid. The gas or liquid resists the object's motion.*

Examples include a paper airplane dragging through air, and a boat dragging through water.



Elastic Interaction

An elastic interaction occurs *when two objects push or pull on each other and at least one of them is stretchy.*



Examples include launching a ball with a slingshot and launching a pinball with a spring.