



## Additional Activity

### Impossible Interactions?

Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

### Purpose/To Do

The purpose of this activity is to apply *InterActions* ideas to fantastic situations. For this activity, you need to find four examples of interactions from fantasy or science fiction movies, TV shows, books or comics. These should be interactions in which fictional forces (such as magic, anti-gravity, telekinesis or “The Force” [*Star Wars*]) play a role. Your task is identify the size and direction of the fictional forces that need to be acting on objects involved in the interaction. For this activity, “size” means stating the size of the fictional force compared to other, “real” forces (gravity, friction, drag, etc.) involved.

You need a full citation of the source (for movies, include the year of release; for TV shows, include the series name, episode title, and year the episode first aired). Include copies or snapshots of the relevant material if you can. Use the format below to analyze each of the interactions you choose. Space for drawing a **force diagram** and writing an **explanation** is available on page 2. You can use your own paper or make copies of this sheet.

Citation: \_\_\_\_\_

\_\_\_\_\_

Describe the scene: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

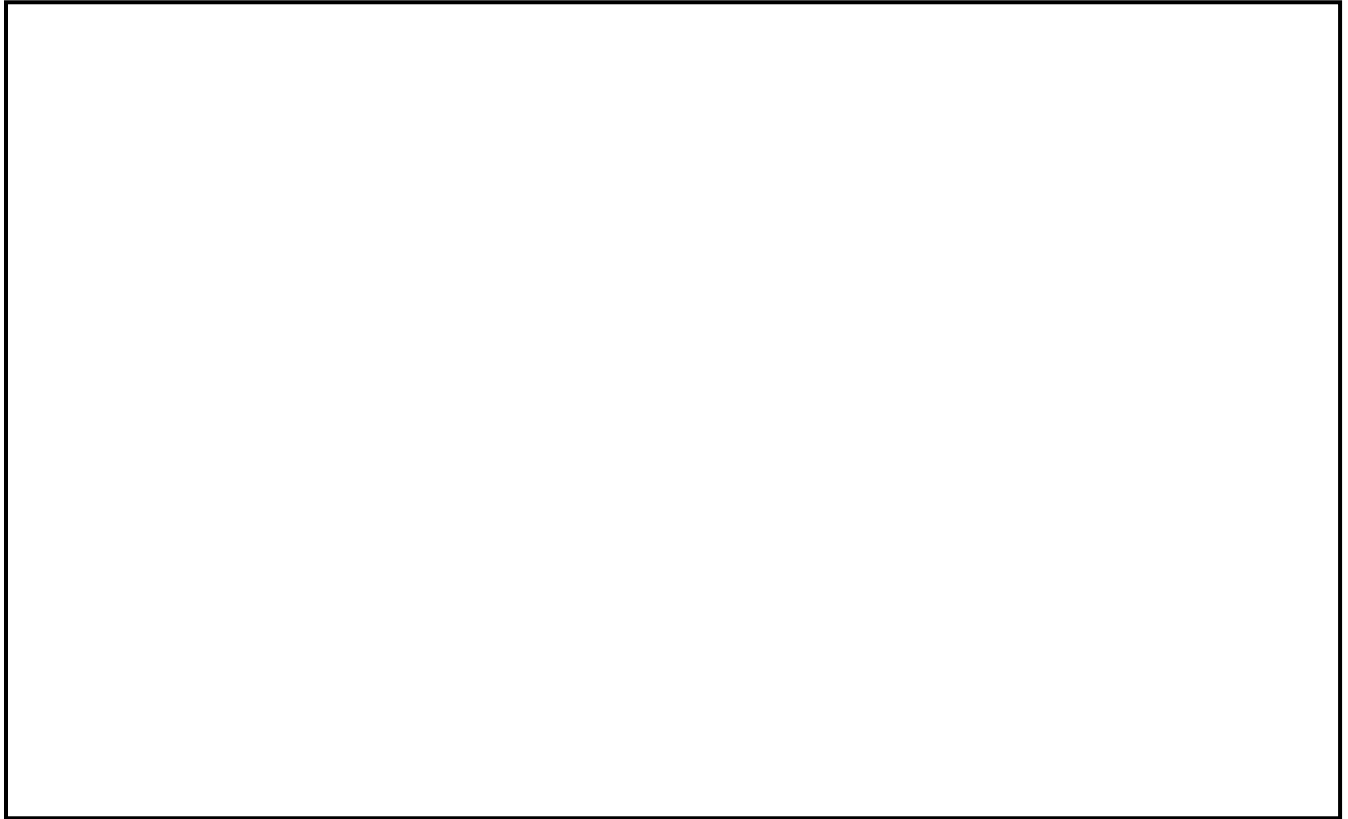
\_\_\_\_\_

Statement of the problem: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Force Diagram** (make sure that you clearly distinguish between real and fictional forces):



Problem solution: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_