



## GRACE VALLEY INDIAN SCHOOL

### PHYSICS

#### TASK SHEET (FORCE AND PRESSURE)

Name:

Grade 8

1. Carefully watch the videos and answer the following Questions

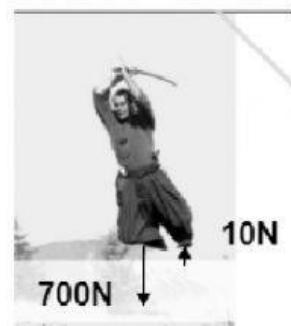
2. Fill the following table as example shown above in the video.

Forces acting on a box	Balanced /unbalanced	Net force	Direction of movement of box(right/left)
1. 			
2. 			
3. 			
4. 			
5. 			
6. 			

3. Based on the above inference answer the following questions

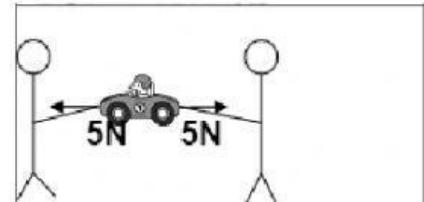
a. (i) The man is jumping through the air, are the forces on him balanced or unbalanced?

(ii) which are the forces acting on the man?



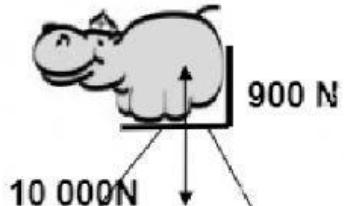
(iii) what happened to the man after taking this photo?

b. (i) Are the forces on toy balanced or unbalanced?



(ii) Which direction will the toy move?

c. (i) Balanced or unbalanced?



(ii) what will happen to the hippo and what will happen to the chair?

d. Now draw any picture of your choice here (don't forget to label the forces with arrows)

4. Watch the videos carefully and answer the following questions.

5. (i) why needles are pointed?

(ii) take a knife and a potato. Make a cut in the potato with the sharp edge of the knife. now turn it over and use the blunt edge of the knife to cut the potato. Which takes more effort – the blunt edge or the sharp edge ? why was the job easier when a sharp/blunt edge of knife was used?

(iii) A solid exerts a force of 400 N. Calculate the pressure exerted by the solid on a surface, if area of contact is  $200 \text{ cm}^3$ .

Solution: Force=

Area =

Pressure =

(iv) What will be the pressure exerted by the object if 5000 Newton of forces acting on an area of  $200 \text{ cm}^2$  ?

**After answering all the questions do as follows**

**Above the the worksheet you can see an option like below click on that option**



The screenshot shows a worksheet titled "Plant Reproduction" with the ID "rx106554oy". Below the title are several sharing options: "Add to my workbooks (0)", "Add to Google Classroom" (which is highlighted with a yellow box), "Add to my favourites (0)", "Edit", and "Remove". Below these options is a "Link to this worksheet" button with the URL "https://www.liveworksheets.com/rx106554" and a "Copy" button. At the bottom of the screenshot, there is a "Choose class" dropdown menu with the following options: "Teaching", "Grade 6 girls" (which is selected and highlighted with a blue box), "Grade 6 boys", "Enrolled", and "Science Dept 2020-2021".



Choose class

Teaching

Grade 6 girls

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Science Dept 2020-2021

**THEN SELECT YOUR CLASSROOM**

**AFTER THAT SELECT YOUR ASSIGNMENT AND UPLOAD**