

Revising in English

Cycle: 4	
Niveau conseillé : 3eme	
Thème : mouvement et interaction.	
Type de document : Evaluation formative	
Mots-clés : valeur de la force de pesanteur, anglais	
Durée conseillée : 1H	
Compétences travaillées :	- exploiter en anglais des ressources scientifiques variées et adaptées au niveau visé. -force de pesanteur et son expression $P=mg$

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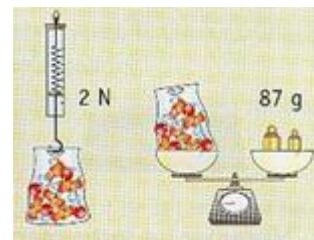
Exercise n°1:

Mark wants to know the weight of his mini skateboard.

- 1- Which instrument will he use to measure its weight?
- 2- Mark does measure the weight and finds 0.8 . In which unit did he measure the weight?
- 3- Then, he decides to calculate the mass of the mini skateboard. Can you write the relation between the mass and the weight?
- 4- Calculate the mass of the mini skateboard knowing the gravitational acceleration on Earth is $g=10\text{N/kg}$
- 5- With which instrument could you measure the mass to be sure of the result you've just calculated?

Exercise n°2:

An astronaut has just landed on an unknown planet. To know on which planet he is, he decides to measure the mass and the weight of a bag of candy.



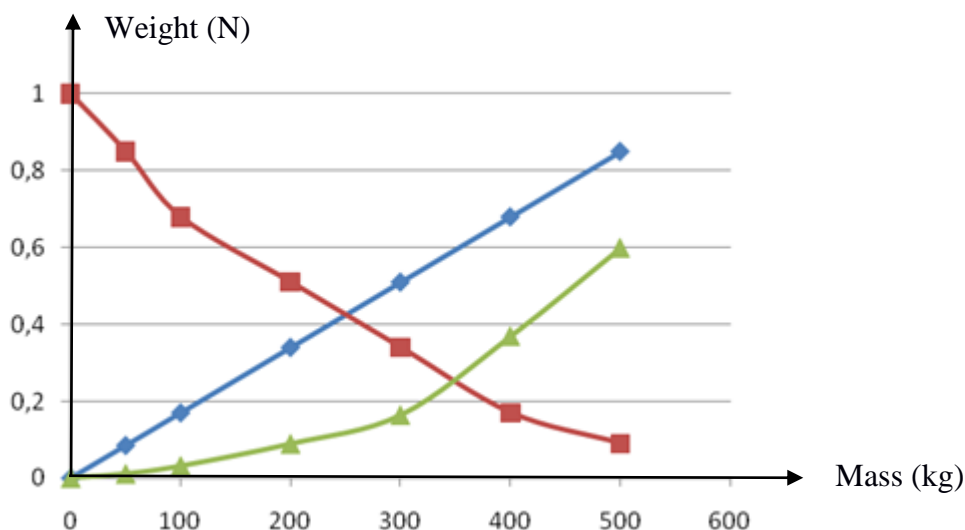
- 1- On which planet is he? Justify your answer.

Information: $g_{\text{Earth}}=9.81\text{N/kg}$
 $g_{\text{Moon}}=1.6\text{N/kg}$
 $g_{\text{Jupiter}}=22.9\text{N/kg}$
 $g_{\text{Saturn}}=9.05\text{N/kg}$

- 2- The weight of the astronaut on Earth was 1,500N. Can you find his mass and weight on this new planet?

Exercise n°3:

- 1- Which of the 3 curves plots the weight of an object on the moon as a function of its mass? Explain.



- 2- Using the graph, find the weight of an object whose mass is 500g
- 3- Using the graph, find the mass of an object whose weight is 0.2N.