

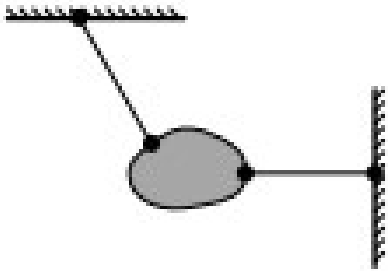
TP n°13 – Principe d'inertie

Correction

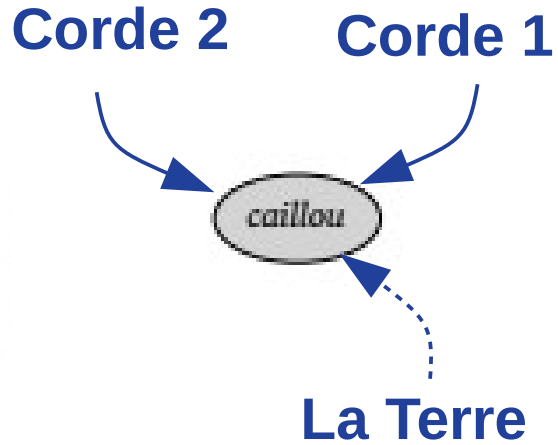
Question 13.1 Principe d'inertie et bilan des forces

Fig. 13.1

Caillou immobile



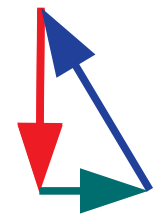
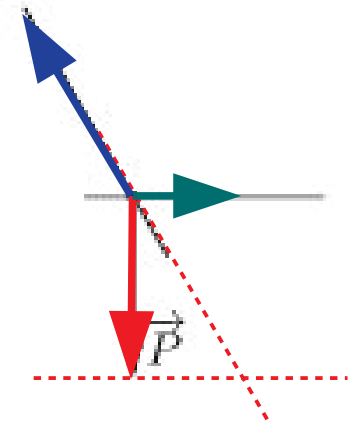
Interactions



Principe d'inertie

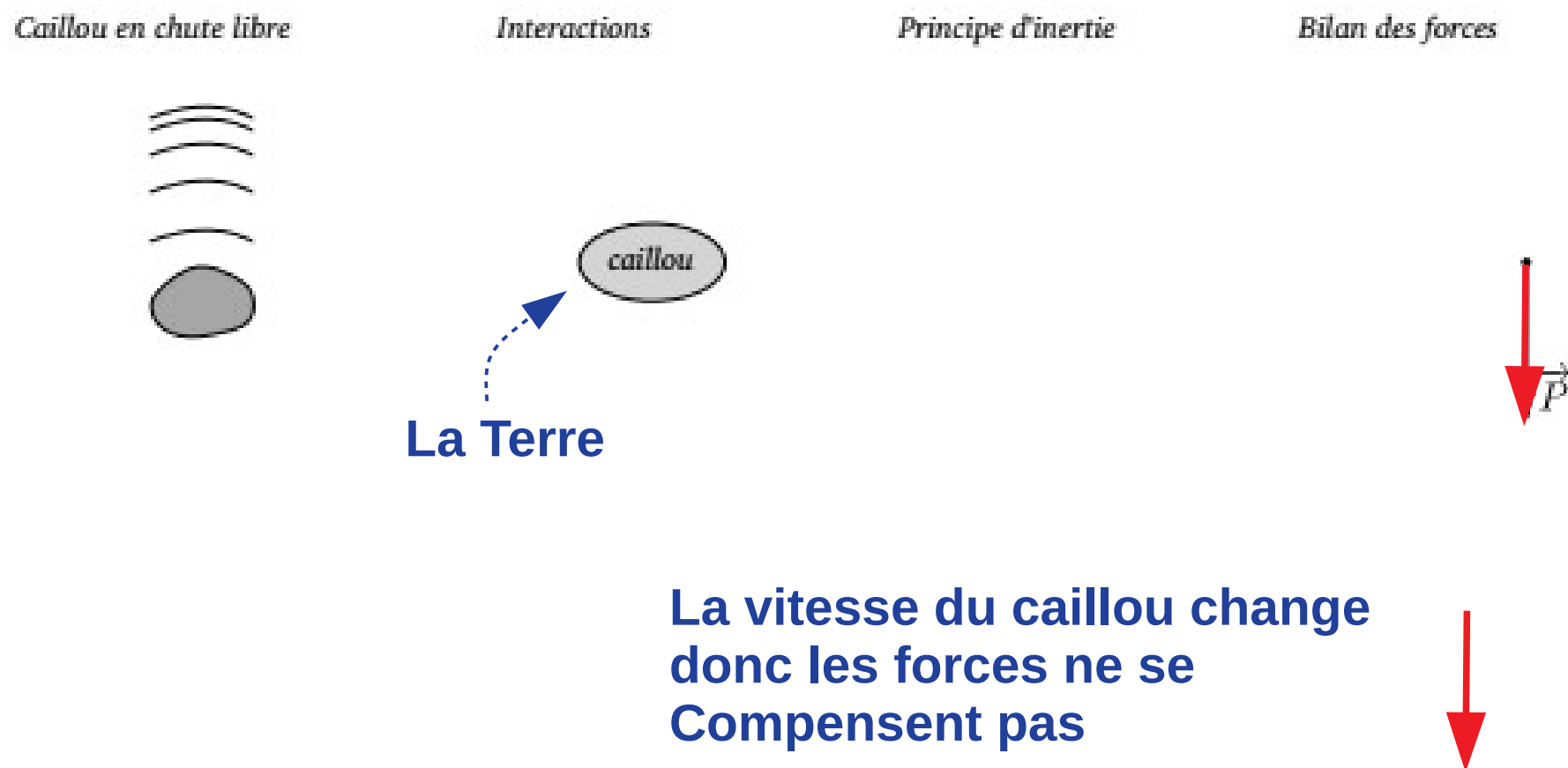
**Le caillou est immobile
donc les forces
se compensent.**

Bilan des forces



Question 13.2 Principe d'inertie et bilan des forces

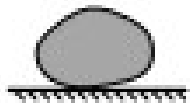
Fig. 13.2



Question 13.2 Principe d'inertie et bilan des forces

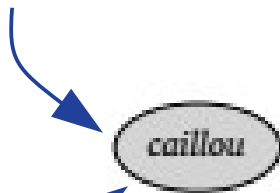
Fig. 13.3

Caillou immobile



Interactions

La table

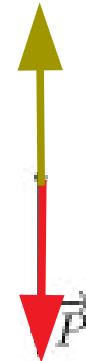


La Terre

Principe d'inertie

La vitesse du caillou ne change pas, elle reste nulle, donc les forces se compensent

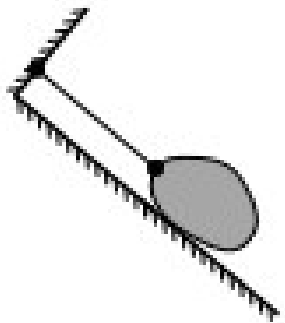
Bilan des forces



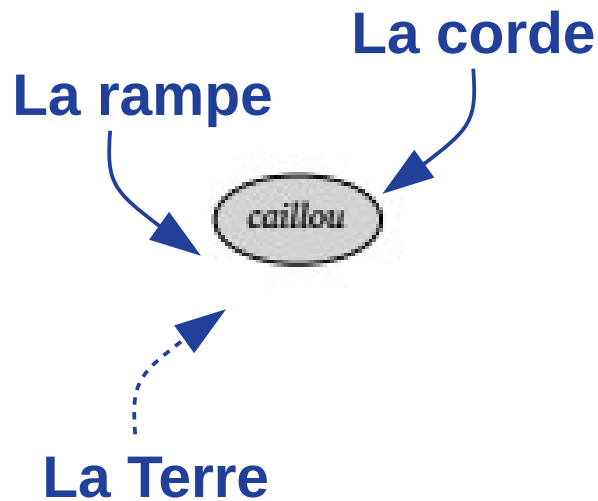
Question 13.2 Principe d'inertie et bilan des forces

Fig. 13.4

Caillou immobile



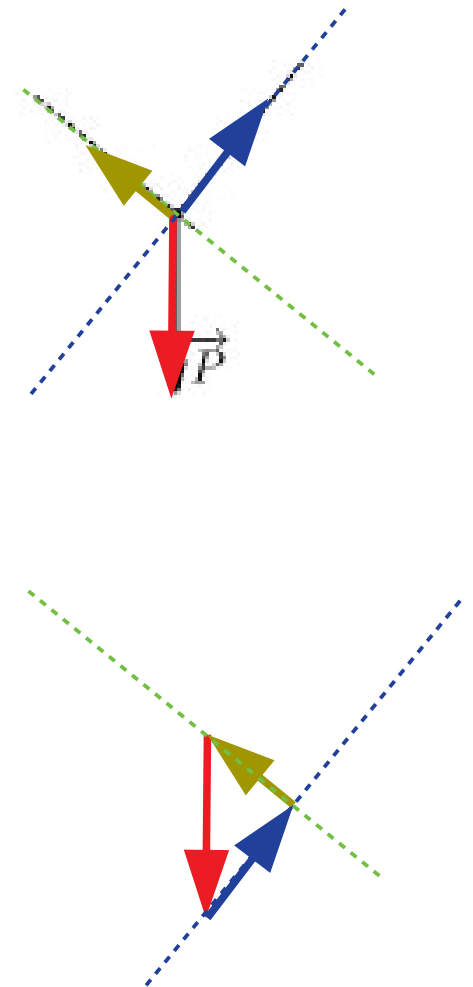
Interactions



Principe d'inertie

La vitesse du caillou ne change pas, elle reste nulle, donc les forces se compensent

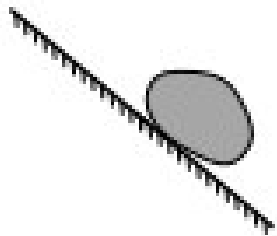
Bilan des forces



Question 13.2 Principe d'inertie et bilan des forces

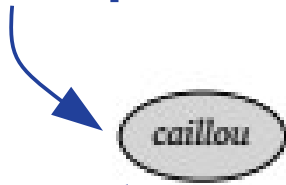
Fig. 13.5

Caillou immobile



Interactions

La rampe

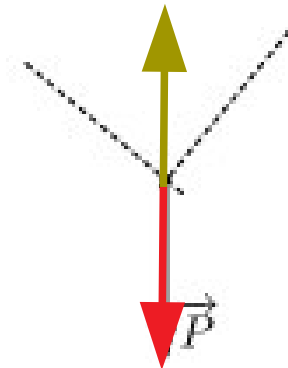


La Terre

Principe d'inertie

La vitesse du caillou ne change pas, elle reste nulle, donc les forces se compensent

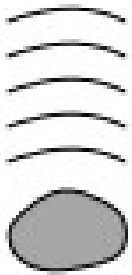
Bilan des forces



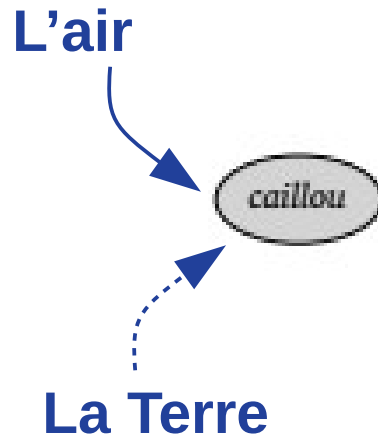
Question 13.2 Principe d'inertie et bilan des forces

Fig. 13.6

Caillou en chute à vitesse constante



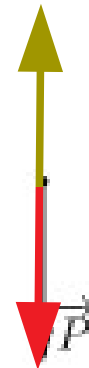
Interactions



Principe d'inertie

La vitesse du caillou ne change pas, donc les forces se compensent

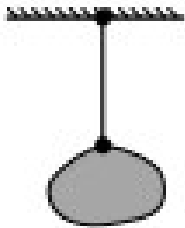
Bilan des forces



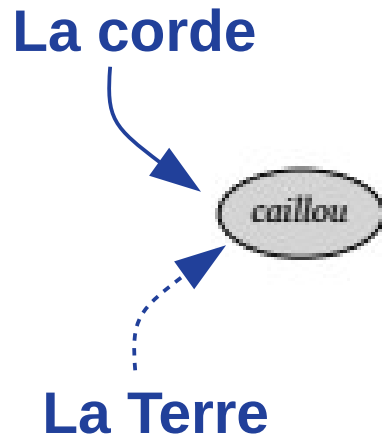
Question 13.2 Principe d'inertie et bilan des forces

Fig. 13.7

Caillou immobile



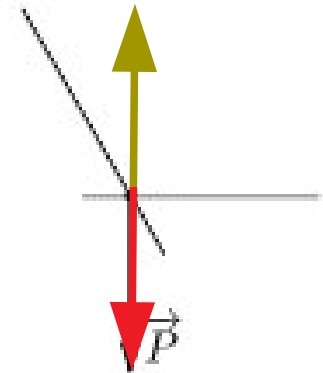
Interactions



Principe d'inertie

La vitesse du caillou ne change pas, donc les forces se compensent

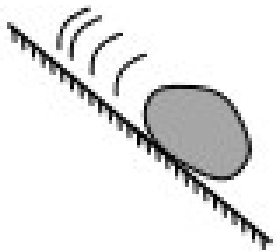
Bilan des forces



Question 13.2 Principe d'inertie et bilan des forces

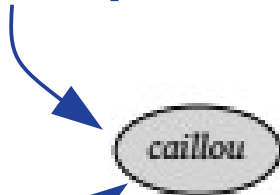
Fig. 13.8

Caillou en mouvement



Interactions

La rampe

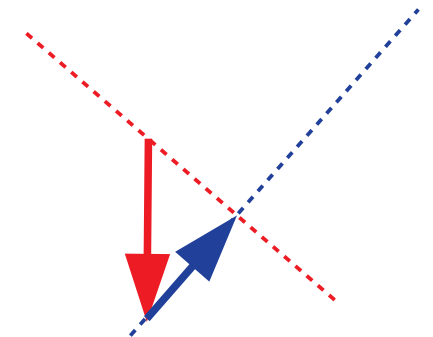
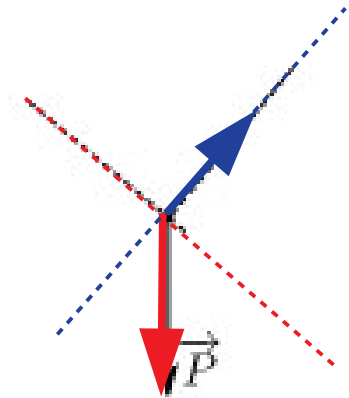


La Terre

Principe d'inertie

**La vitesse du caillou change,
donc les forces ne se
compensent pas**

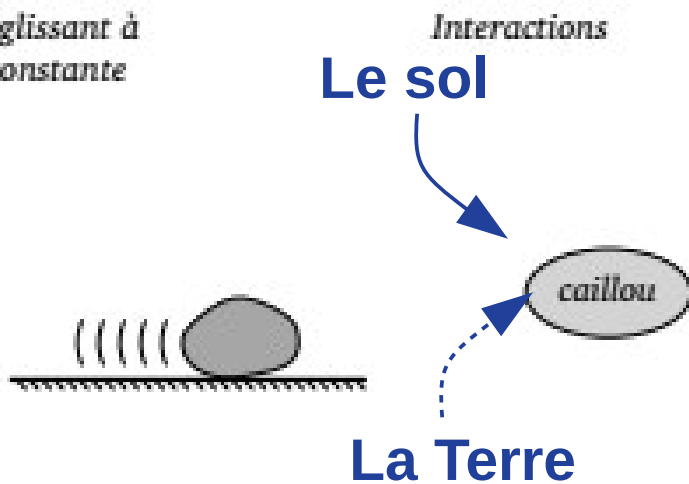
Bilan des forces



Question 13.2 Principe d'inertie et bilan des forces

Fig. 13.9

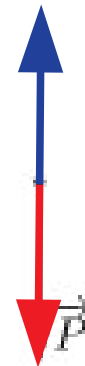
Caillou glissant à vitesse constante



Principe d'inertie

Bilan des forces

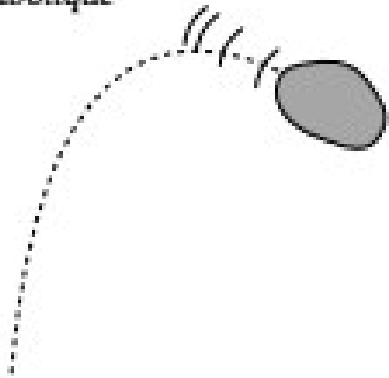
La vitesse du caillou ne change pas, donc les forces se compensent



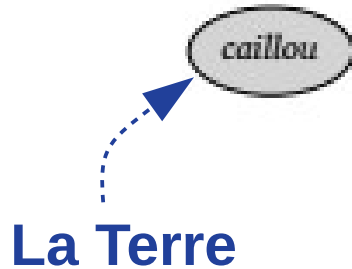
Question 13.2 Principe d'inertie et bilan des forces

Fig. 13.10

Caillou avec une trajectoire parabolique



Interactions



Principe d'inertie

Bilan des forces



La vitesse du caillou change donc les forces ne se compensent pas

