

# MECÁNICA

y

# FLOTACIÓN



CUADERNO CIENTÍFICO. AULA 4 AÑOS

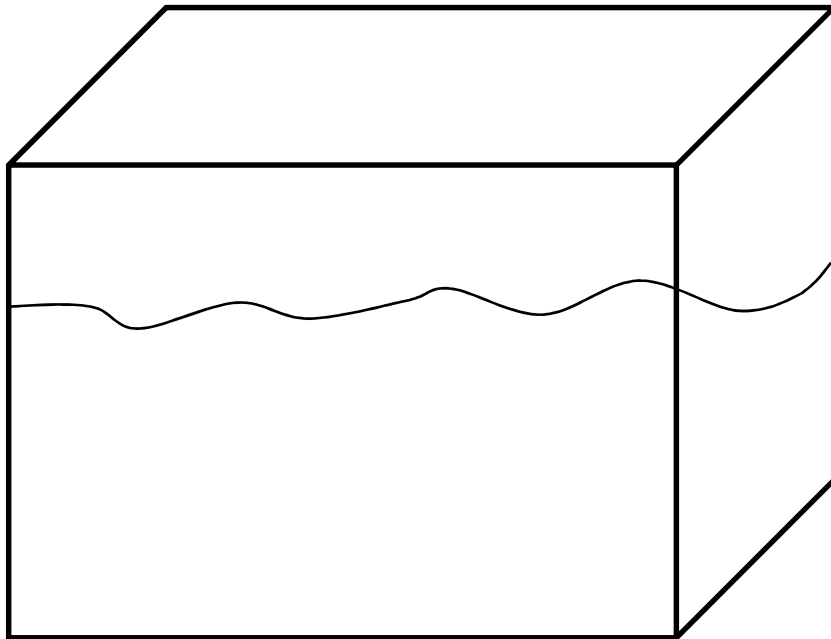
NOMBRE: \_\_\_\_\_

Nombre: \_\_\_\_\_

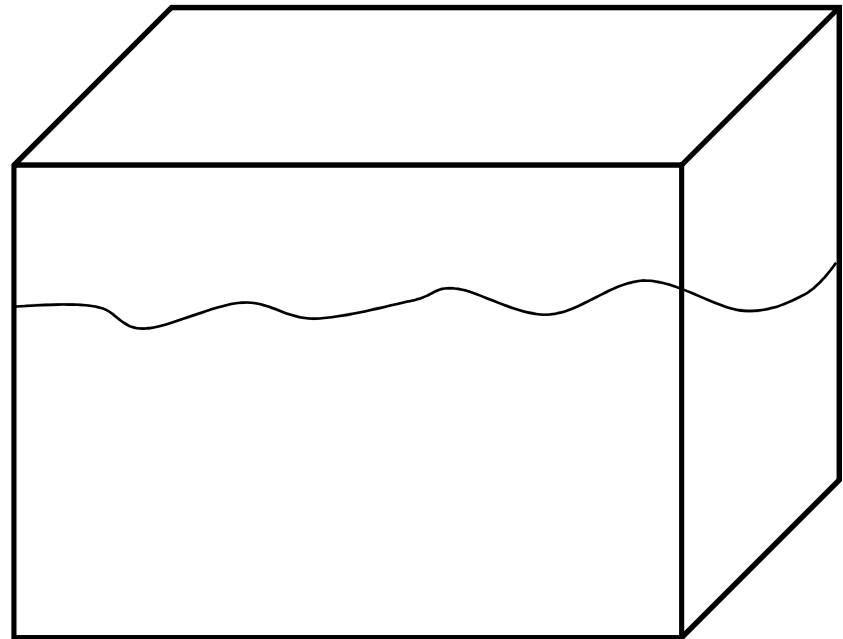
## PENSAMIENTO ARISTOTÉLICO

¿Dónde va la Tierra? (Movimiento natural)

Hipótesis



Comprobación

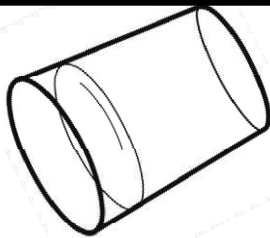


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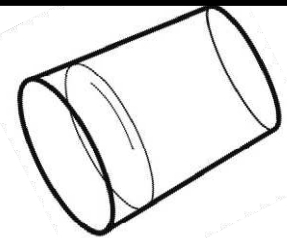
## PENSAMIENTO ARISTOTÉLICO

¿Dónde va el Agua? (Movimiento natural)

Hipótesis



Comprobación

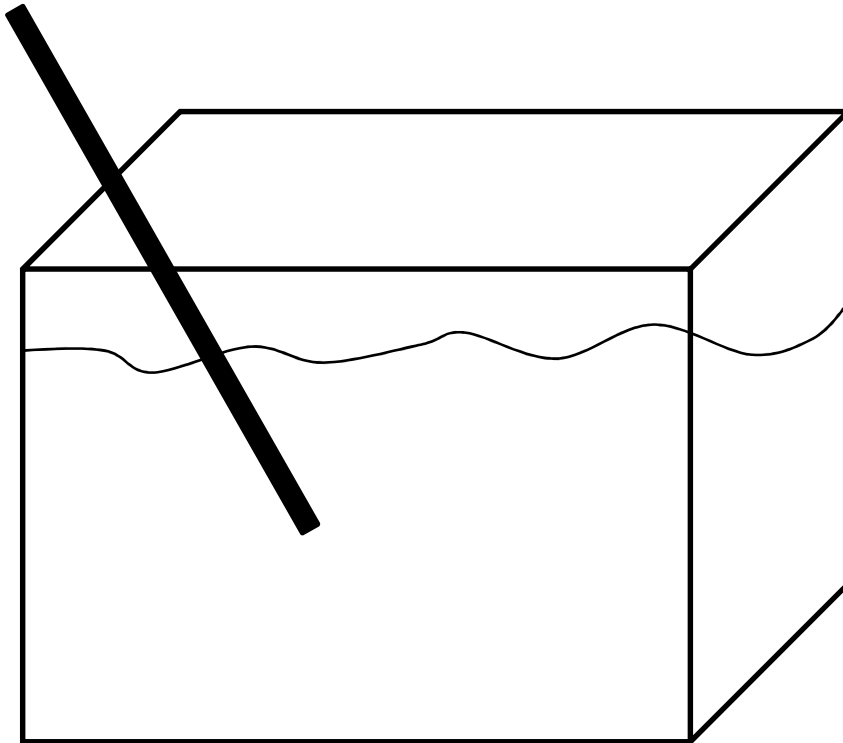


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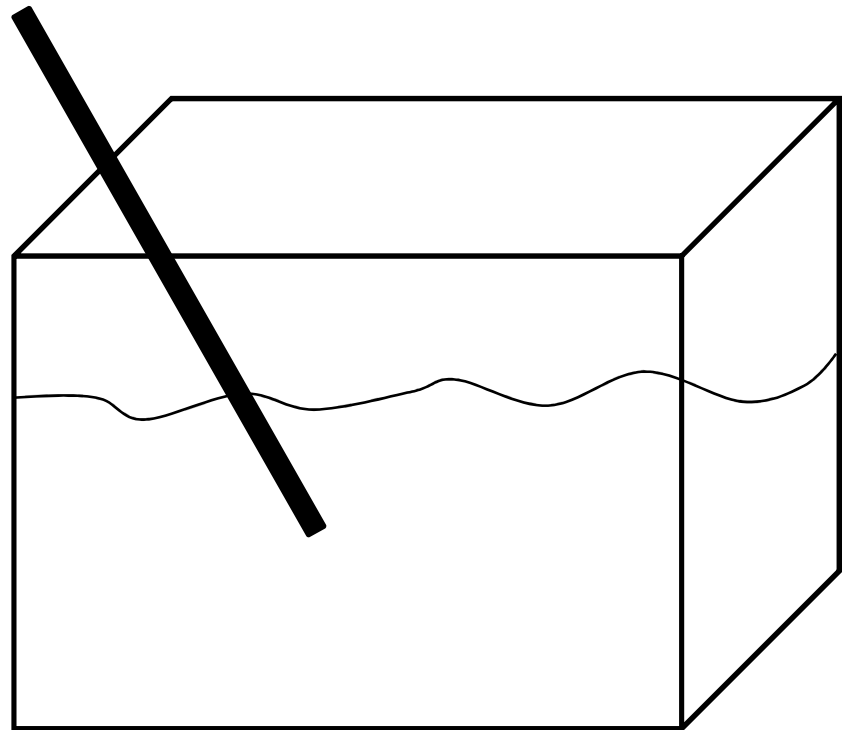
## PENSAMIENTO ARISTOTÉLICO

¿Dónde va el aire? (Movimiento natural)

Hipótesis



Comprobación



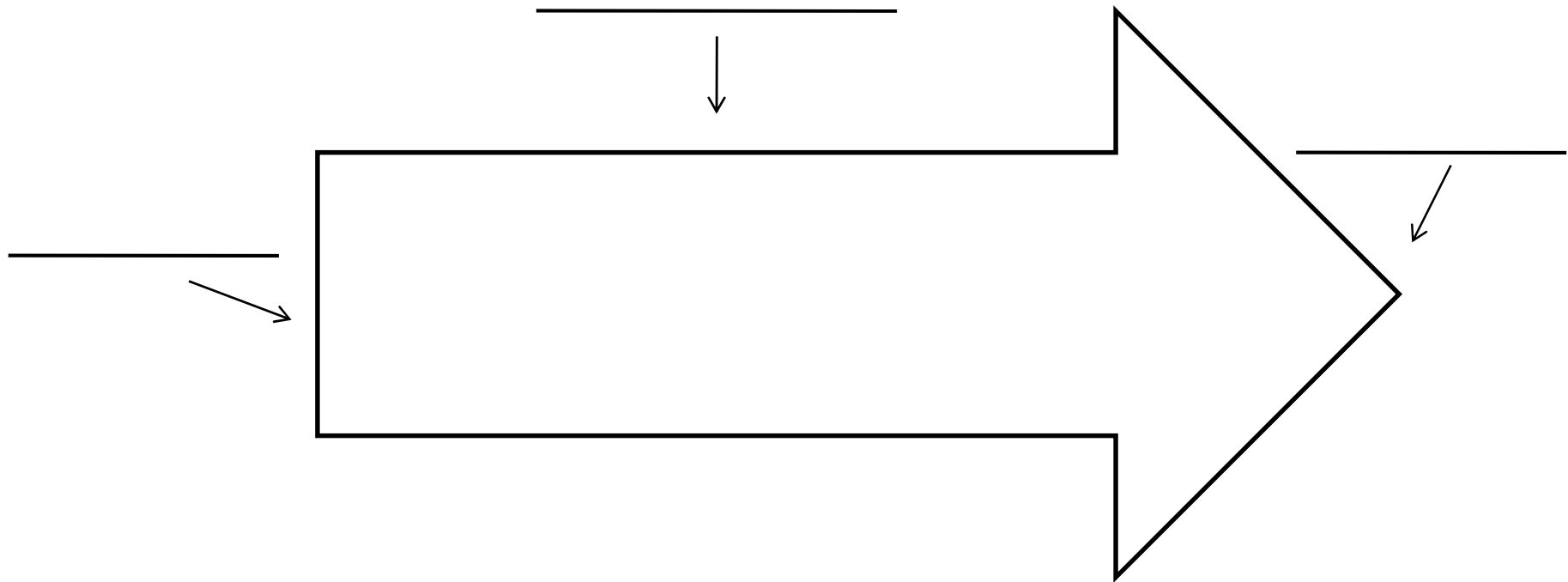
Nombre: \_\_\_\_\_

Dibuja a nuestro amigo "Vector".

Nombre: \_\_\_\_\_

## Conocemos a "Vector"

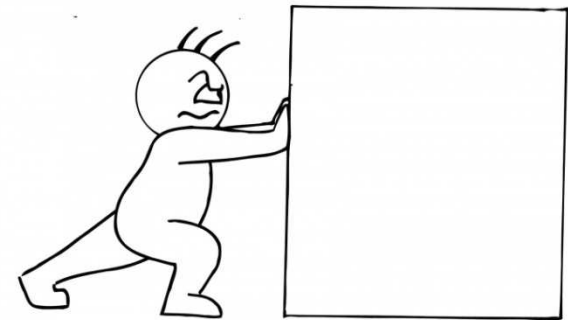
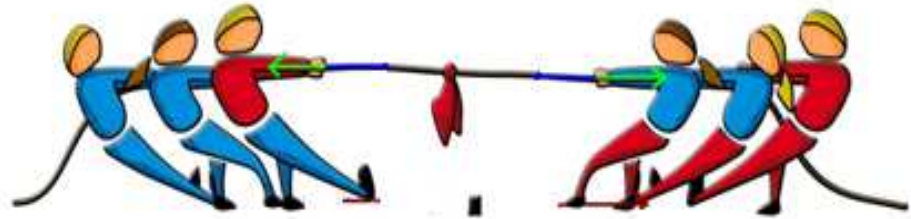
Escribe las partes del vector:

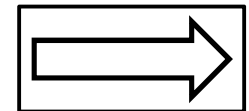
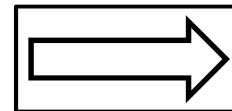
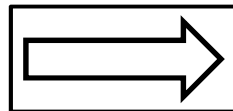
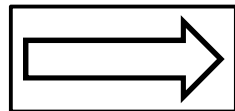
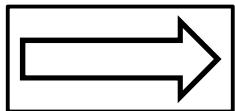
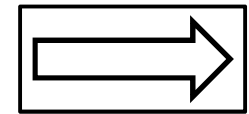
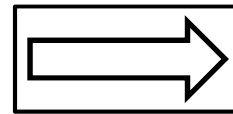
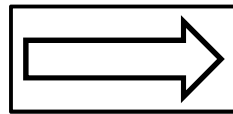
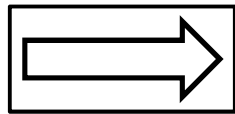
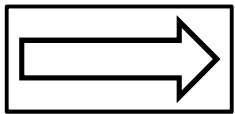
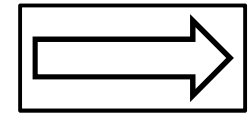
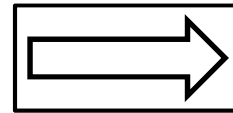
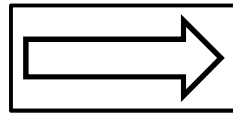
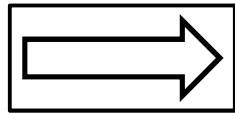
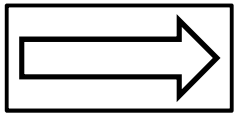
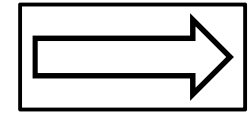
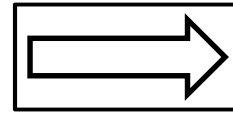
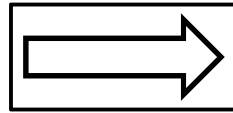
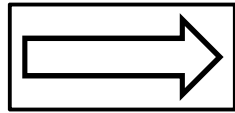
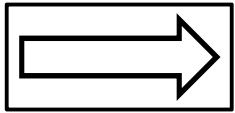
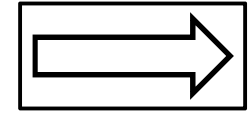
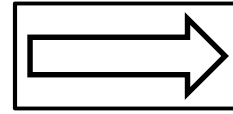
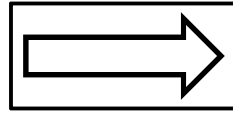
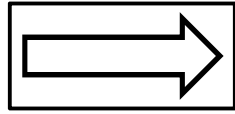
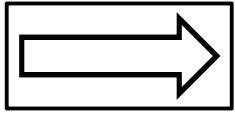


Nombre: \_\_\_\_\_

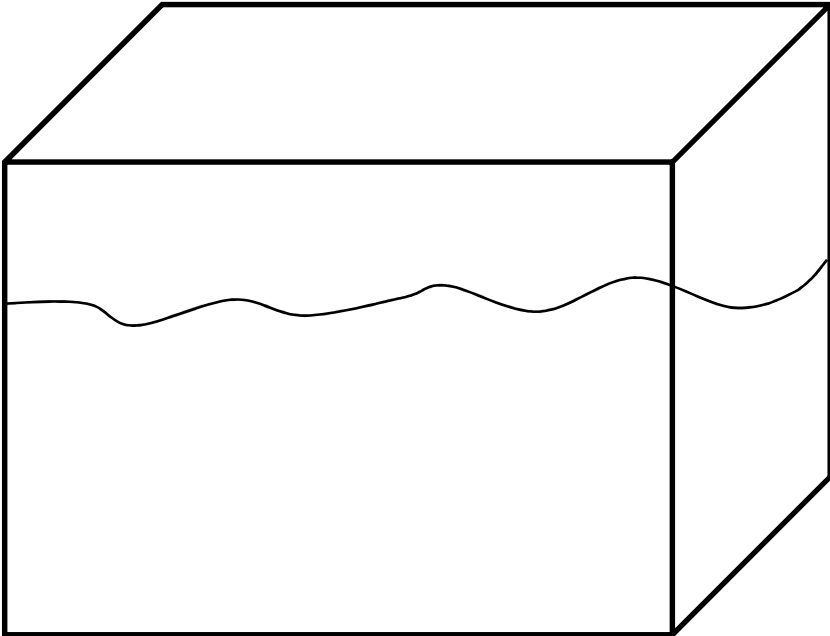
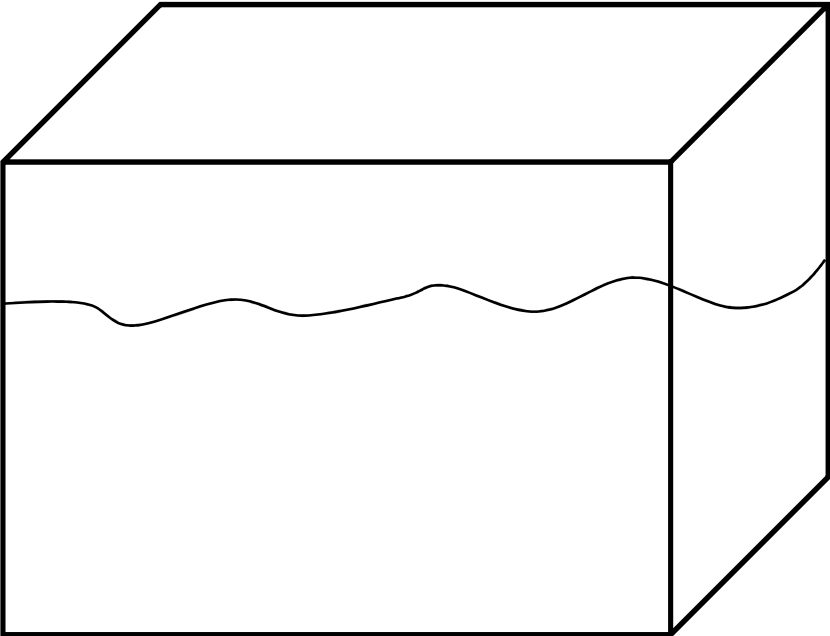
## Reconocemos fuerzas

Coloca los vectores donde corresponda.



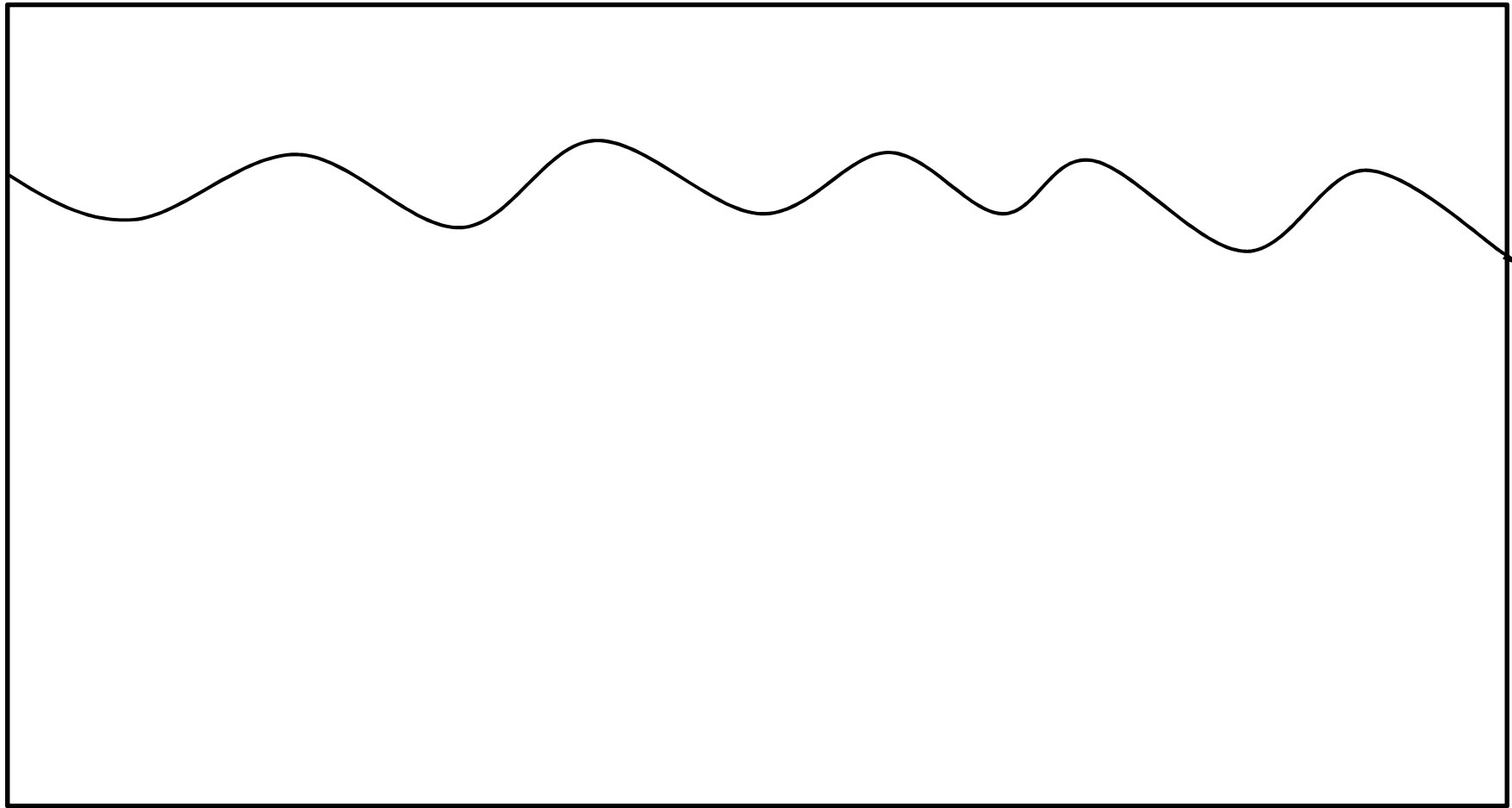


Nombre: \_\_\_\_\_

| Aplicamos fuerzas                                                                   |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| No empujamos                                                                        | Empujamos                                                                            |
|  |  |

Nombre: \_\_\_\_\_

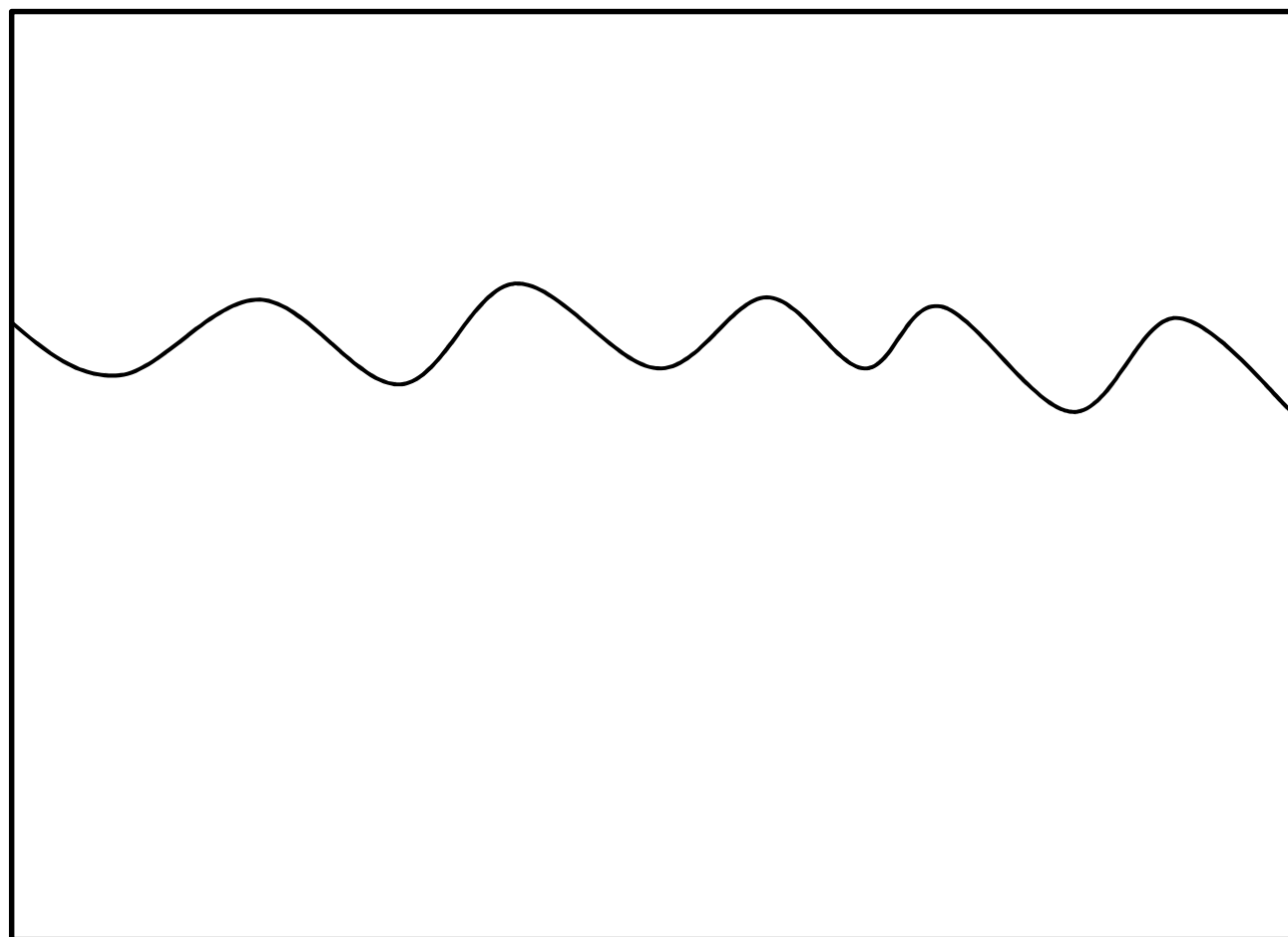
¿Qué ocurre con el globo y el vaso de canicas? ¿Se hunde o no?



Nombre: \_\_\_\_\_

Sumamos fuerzas. Pocas canicas.

Dibuja y coloca los vectores.

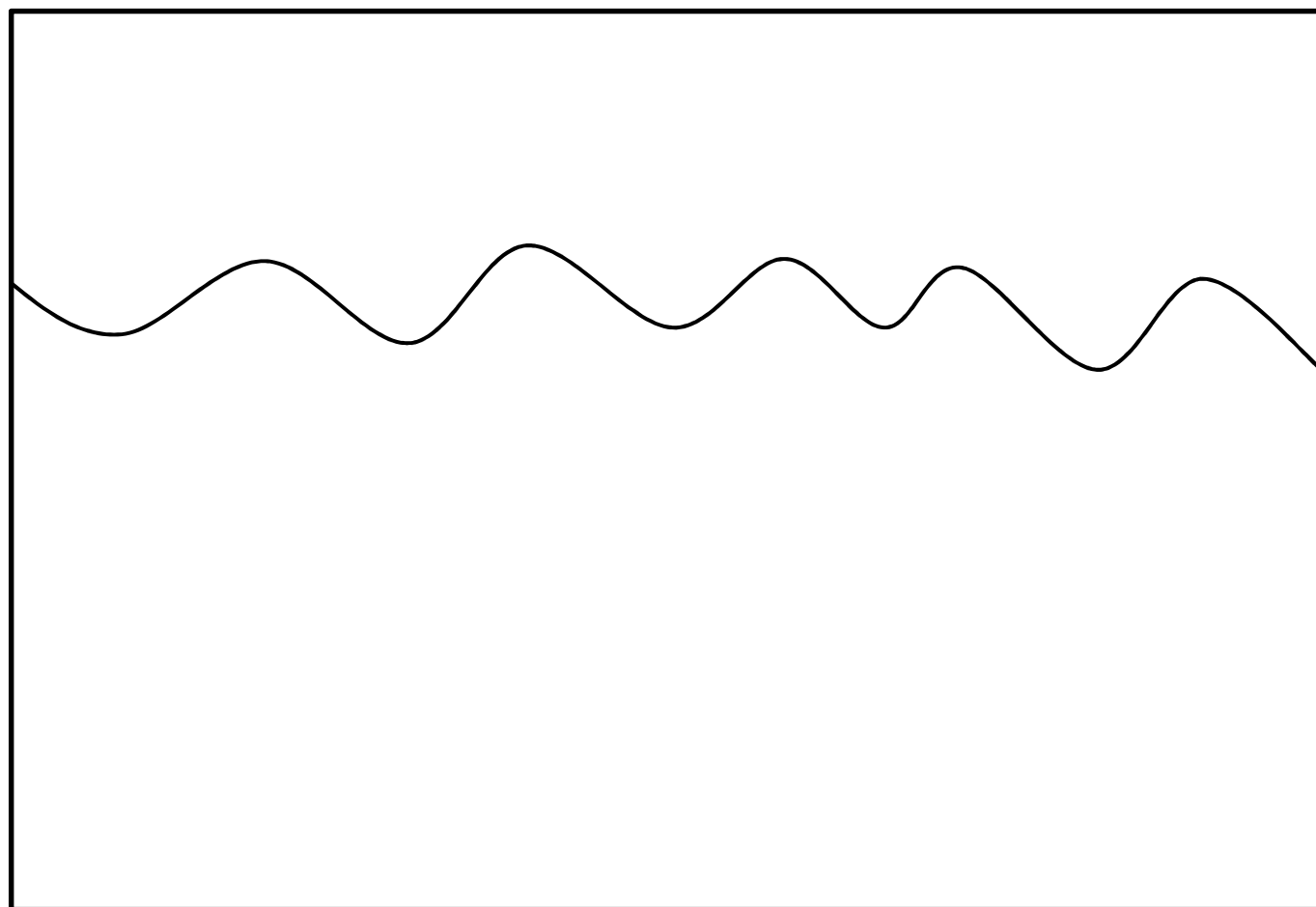


Número de canicas

Nombre: \_\_\_\_\_

Sumamos fuerzas. Mantenemos en equilibrio.

Dibuja y coloca los vectores.

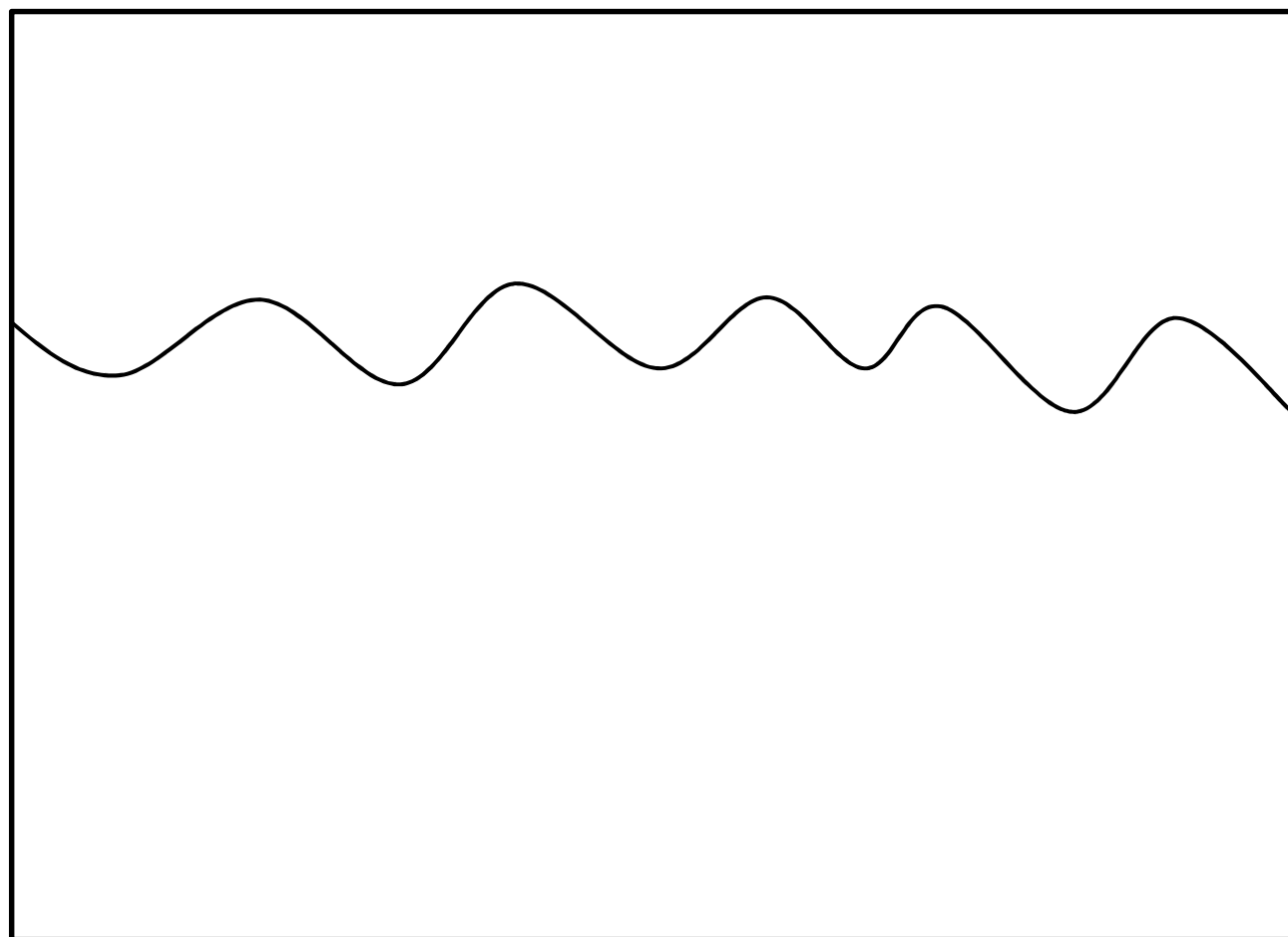


Número de canicas

Nombre: \_\_\_\_\_

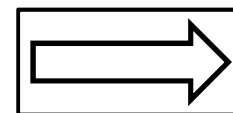
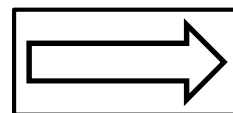
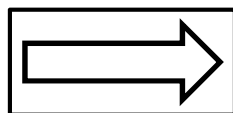
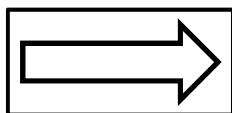
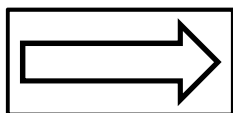
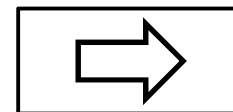
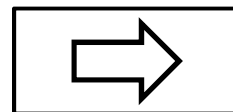
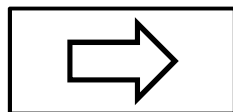
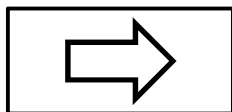
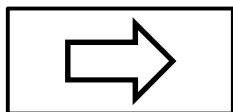
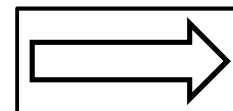
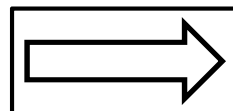
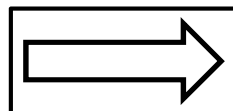
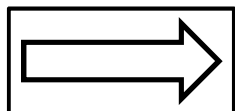
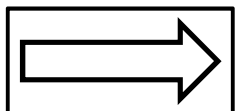
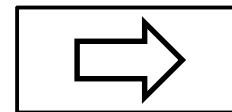
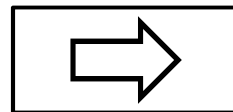
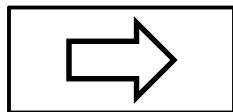
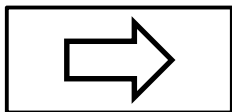
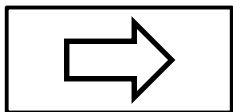
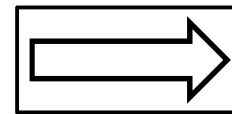
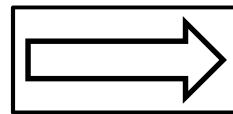
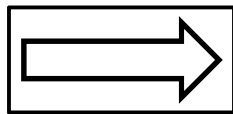
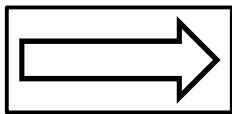
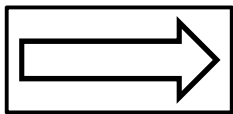
Sumamos fuerzas. Muchas canicas.

Dibuja y coloca los vectores.



Número de canicas

Sumamos fuerzas.

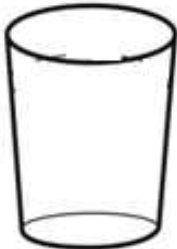


Nombre: \_\_\_\_\_

Construimos un dinamómetro con un muelle y colores (como medida)



|  |
|--|
|  |
|  |
|  |

| Canicas                                                                              | Deformación |
|--------------------------------------------------------------------------------------|-------------|
|    |             |
|   |             |
|  |             |

Nombre: \_\_\_\_\_

## EL DINAMÓMETRO



¿Qué es? Es un \_\_\_\_\_

¿Para qué sirve? \_\_\_\_\_

\_\_\_\_\_

Nombre: \_\_\_\_\_

## Medimos fuerzas

Representa la deformación del muelle con el objeto medido.



Nombre: \_\_\_\_\_

## EMPUJE

¿Qué ocurre cuando medimos un objeto en el agua?

Fuera del agua



Una \_\_\_\_\_

\_\_\_\_\_

pesa \_\_\_\_\_ Newton.

Dentro del agua



Una \_\_\_\_\_

\_\_\_\_\_

pesa \_\_\_\_\_ Newton.

Nombre: \_\_\_\_\_

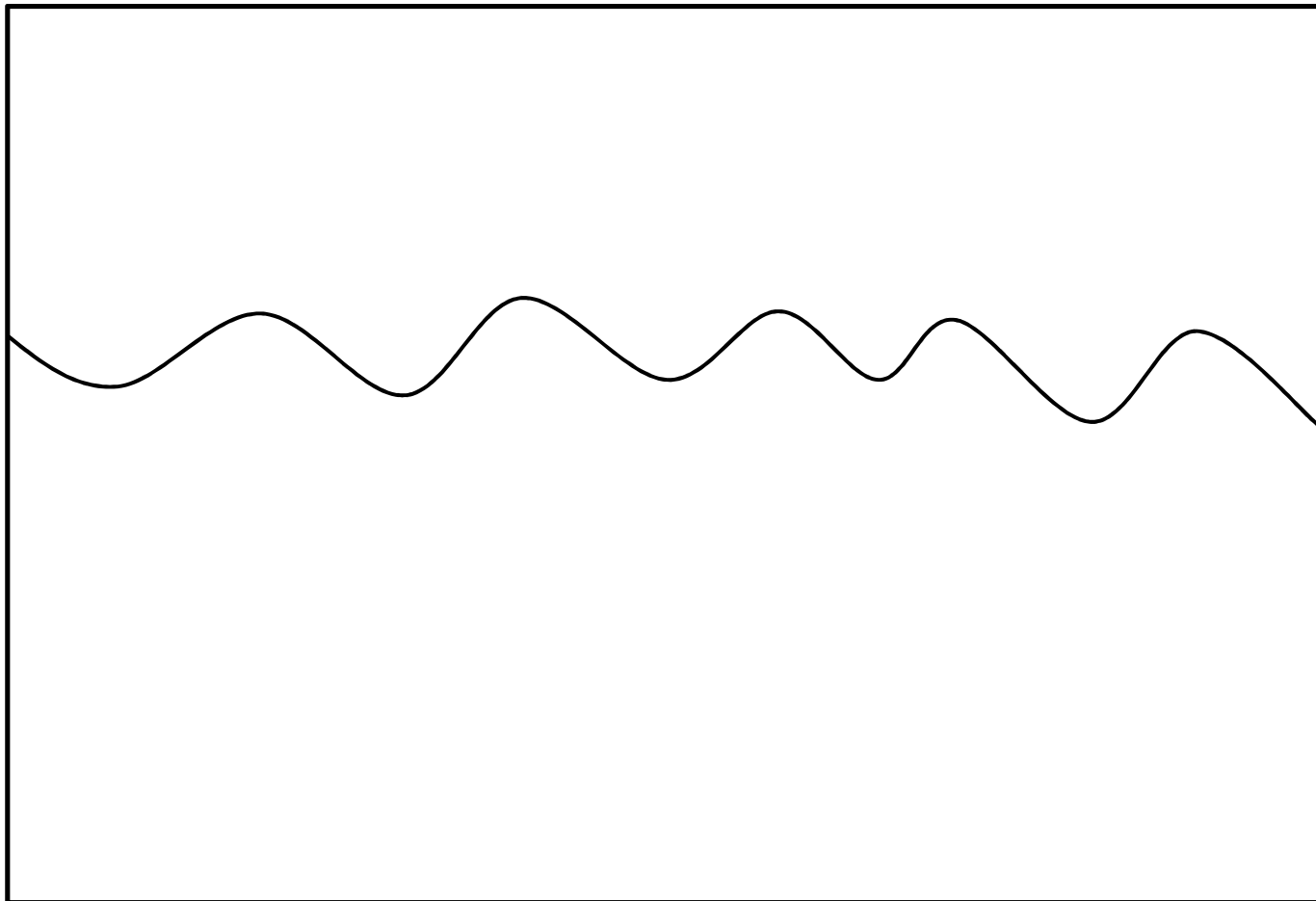
Dibuja al bote "bailarín".

| Sin equilibrio | En equilibrio |
|----------------|---------------|
|                |               |

Nombre: \_\_\_\_\_

## EL SUBMARINO

Dibuja el submarino y coloca los vectores.



Nombre: \_\_\_\_\_

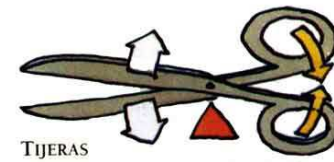
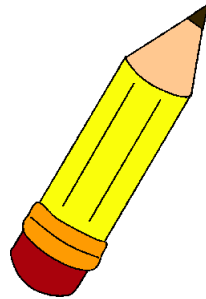
## PALANCAS

Nos dibujamos utilizando una palanca.

Nombre: \_\_\_\_\_

## PALANCAS

Rodea las palancas:



Nombre: \_\_\_\_\_

PALANCAS: Coloca los osos donde corresponde:

