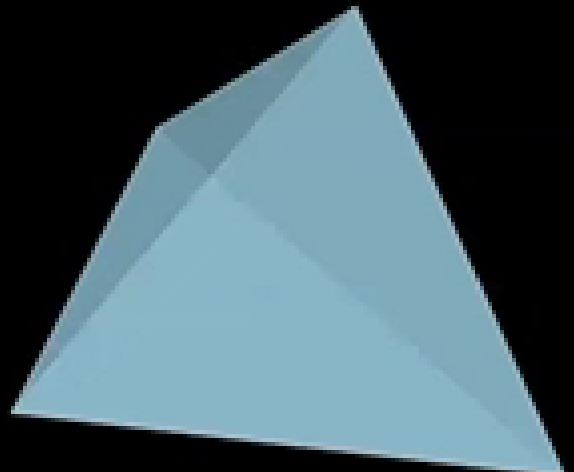




IMPLEMENTACIÓN DE ELECTROMAGNETISMO PARA LA CREACIÓN DEL PRINCIPIO CIENTÍFICO DE ATRACCIÓN ENTRE FIGURAS TRIDIMENSIONALES

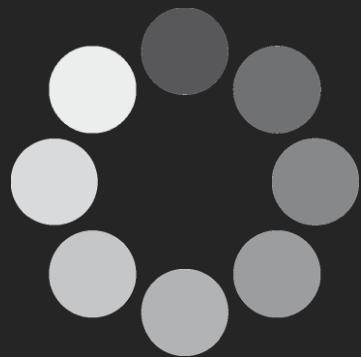
APLICACIÓN DE MATEMÁTICA, FÍSICA, ELECTRÓNICA Y PROGRAMACIÓN

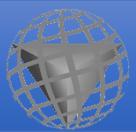
NanoraForms™



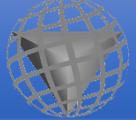
TESIS GRUPAL
TECNOLOGÍAS DE LA INFORMACIÓN Y COMUNICACIÓN (TICS)

Cargando presentación...





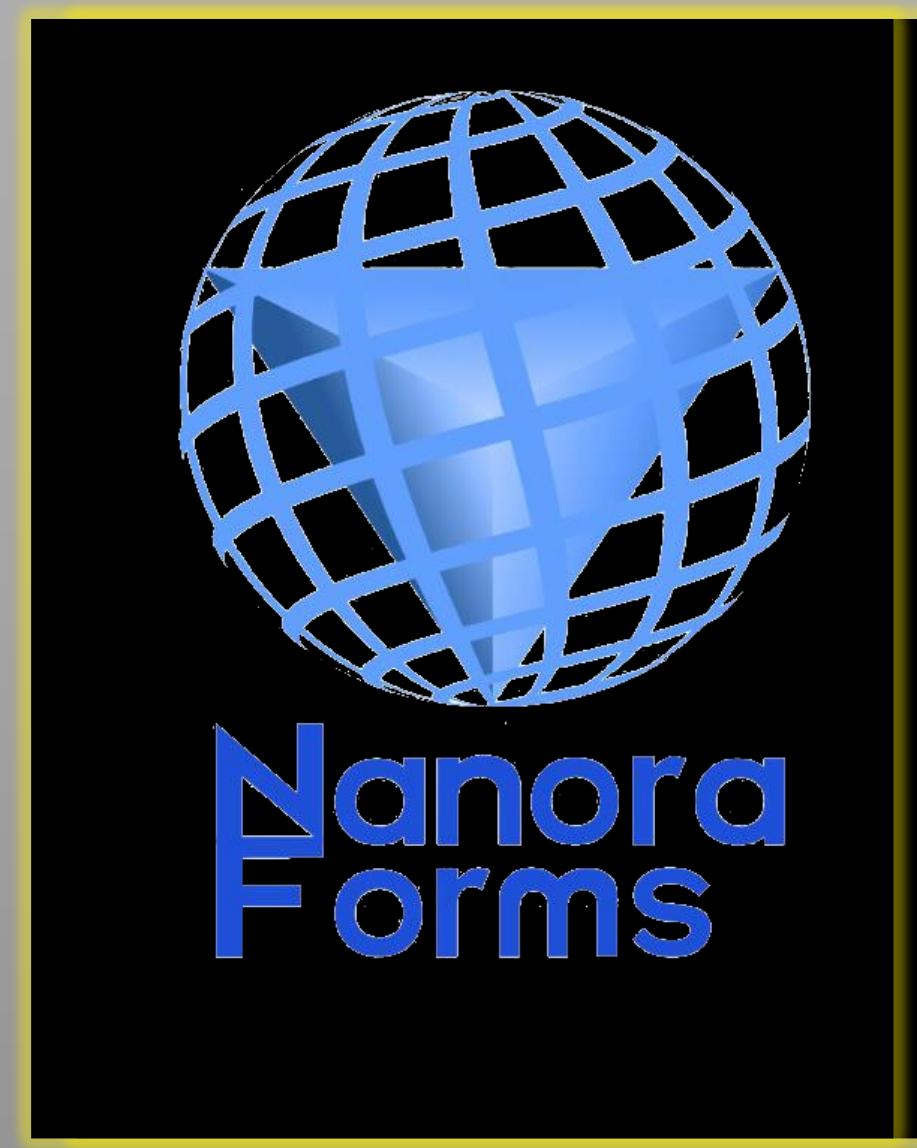
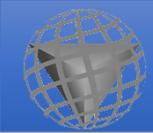
**Nanora
Forms**

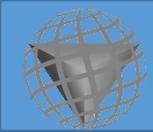


Fin en mente

- Comprobación
- Presentación
- Funcionamiento







GRUPO DE TRABAJO

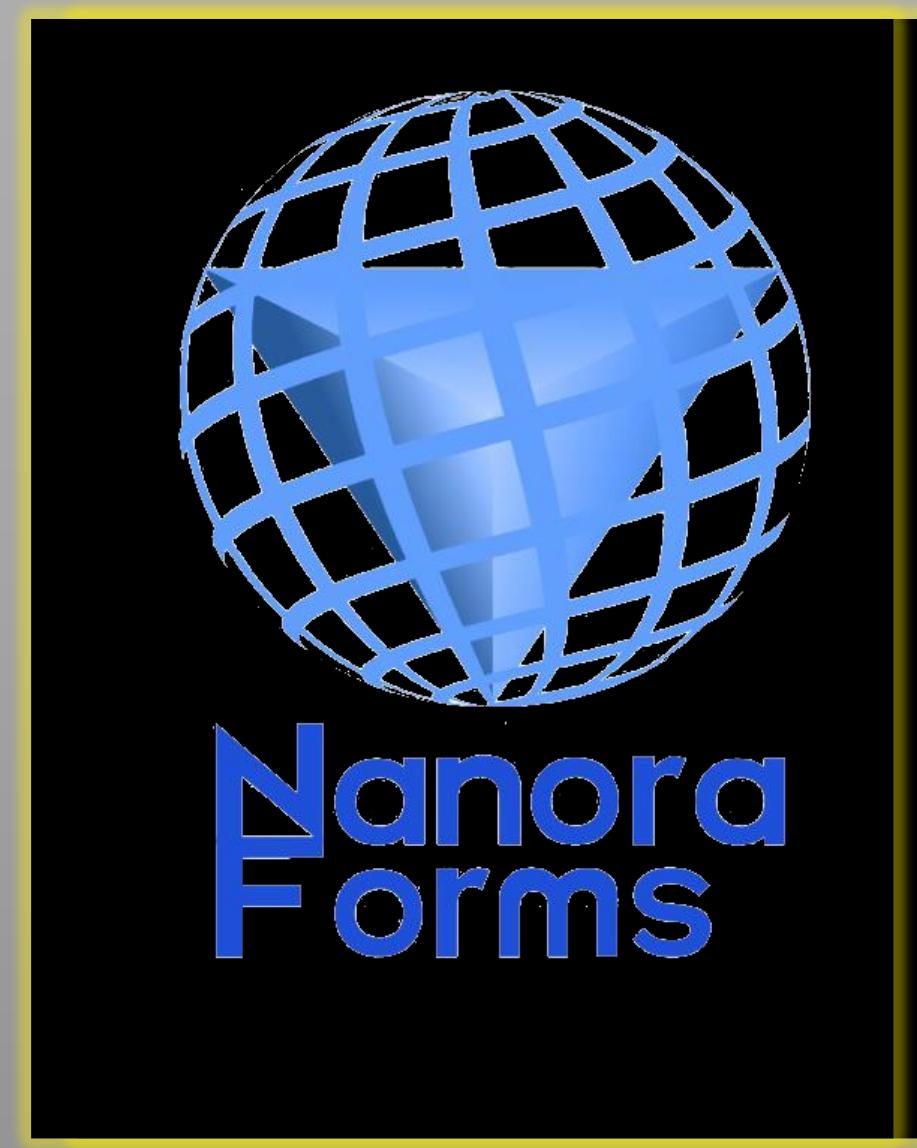
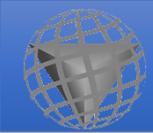
Presidente

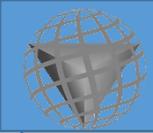
Secretaria

Vicepresidente

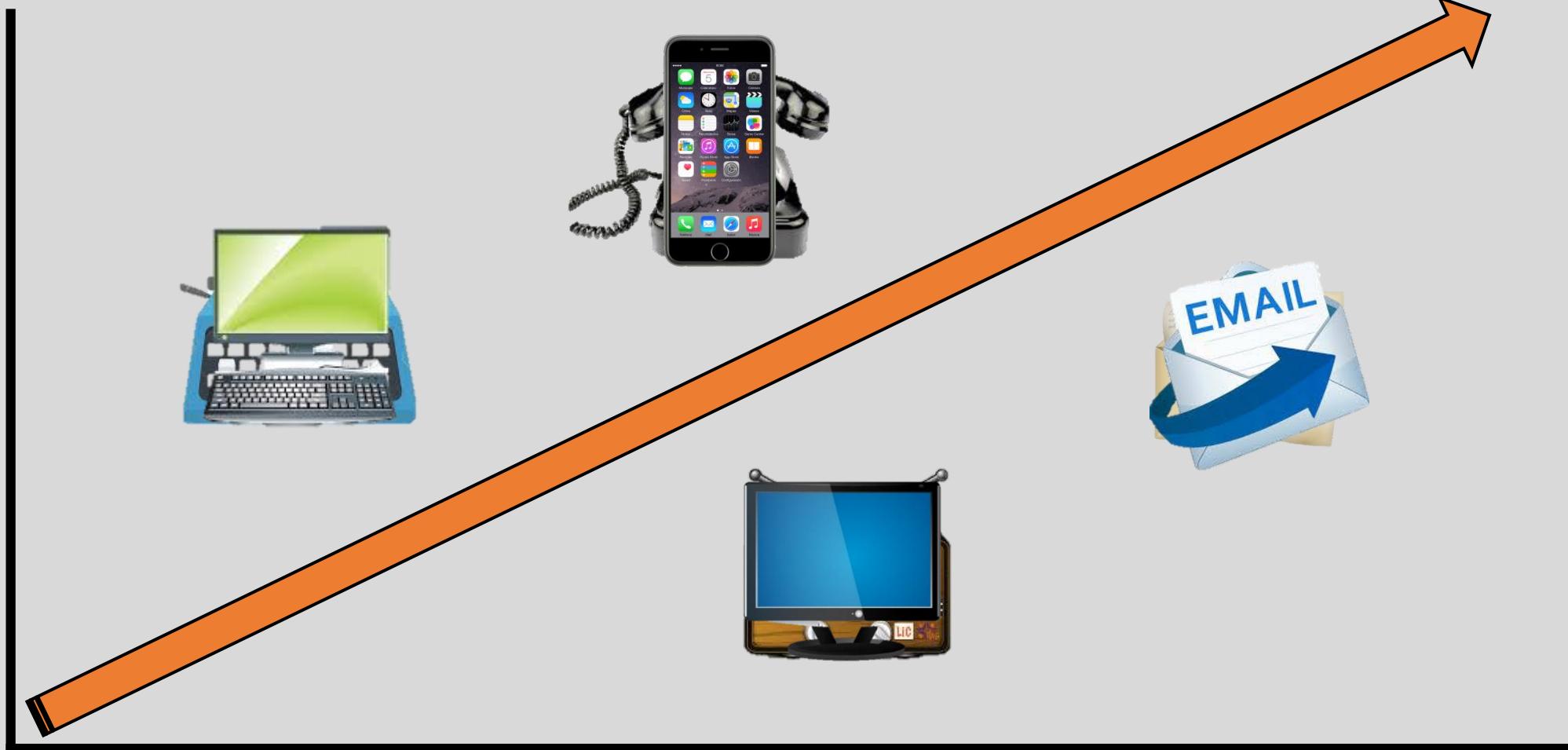
Tesorero

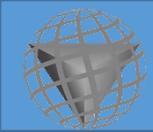






PLANTEAMIENTO DEL PROBLEMA



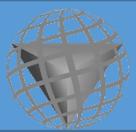


Grandes Héroes



©Disney

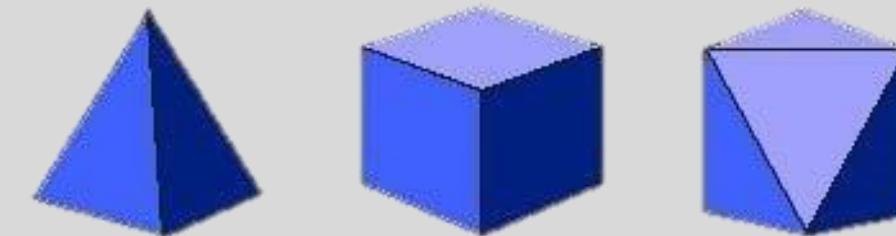




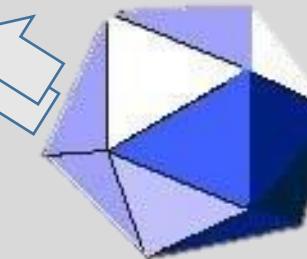
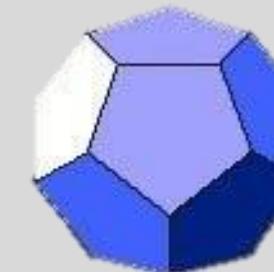
DEFINICIÓN DEL PROBLEMA



Figuras



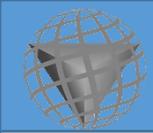
¿?



¿?

Antecedentes





ANTECEDENTES



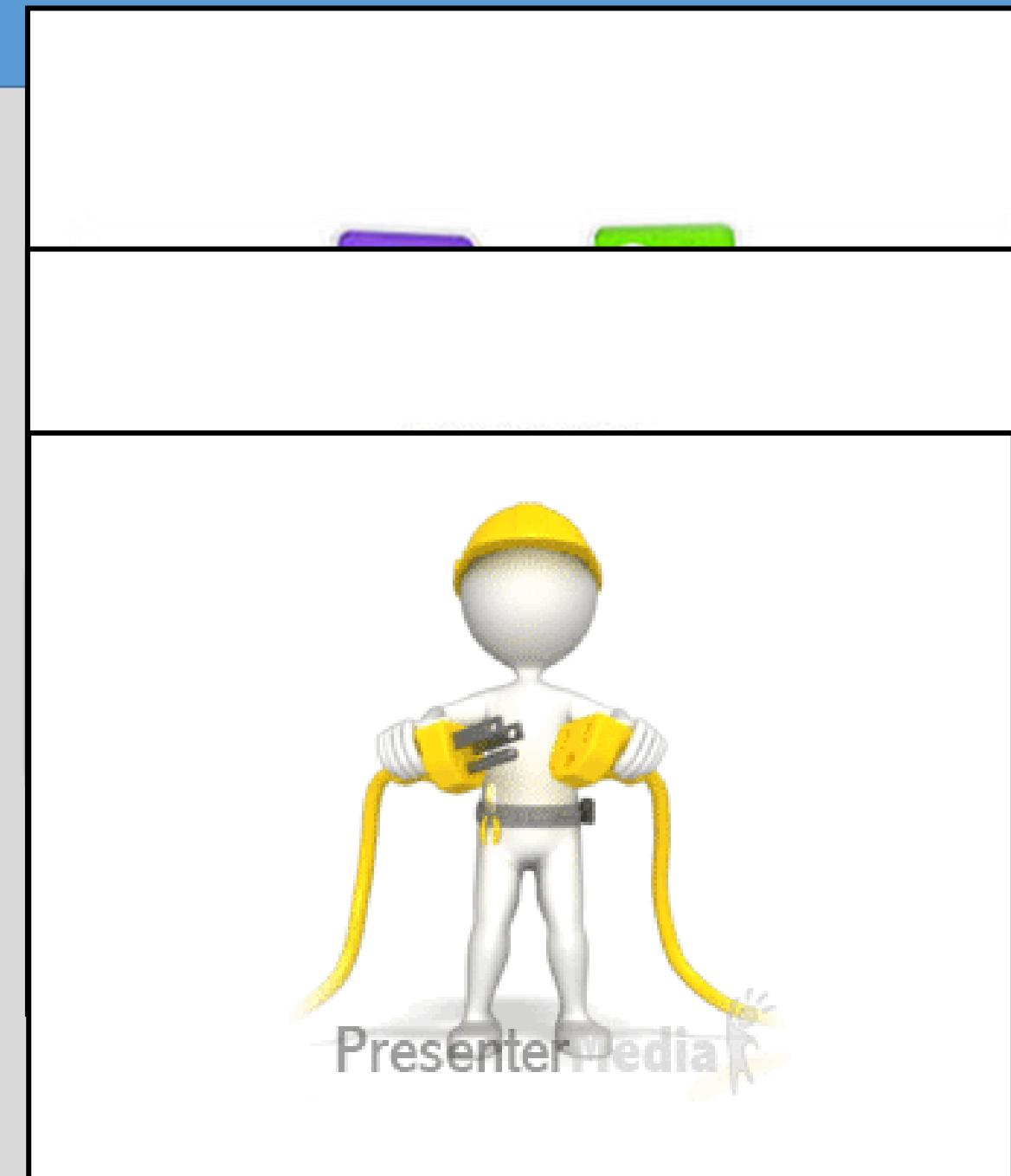
Lenguajes de
programación

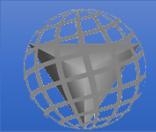


Modelo cinemático y
control de robots
móviles con ruedas

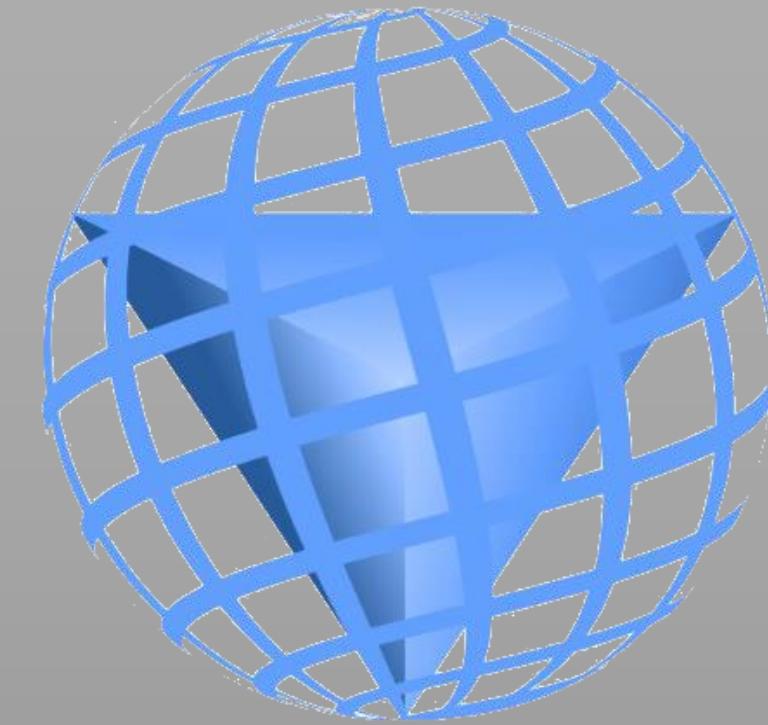
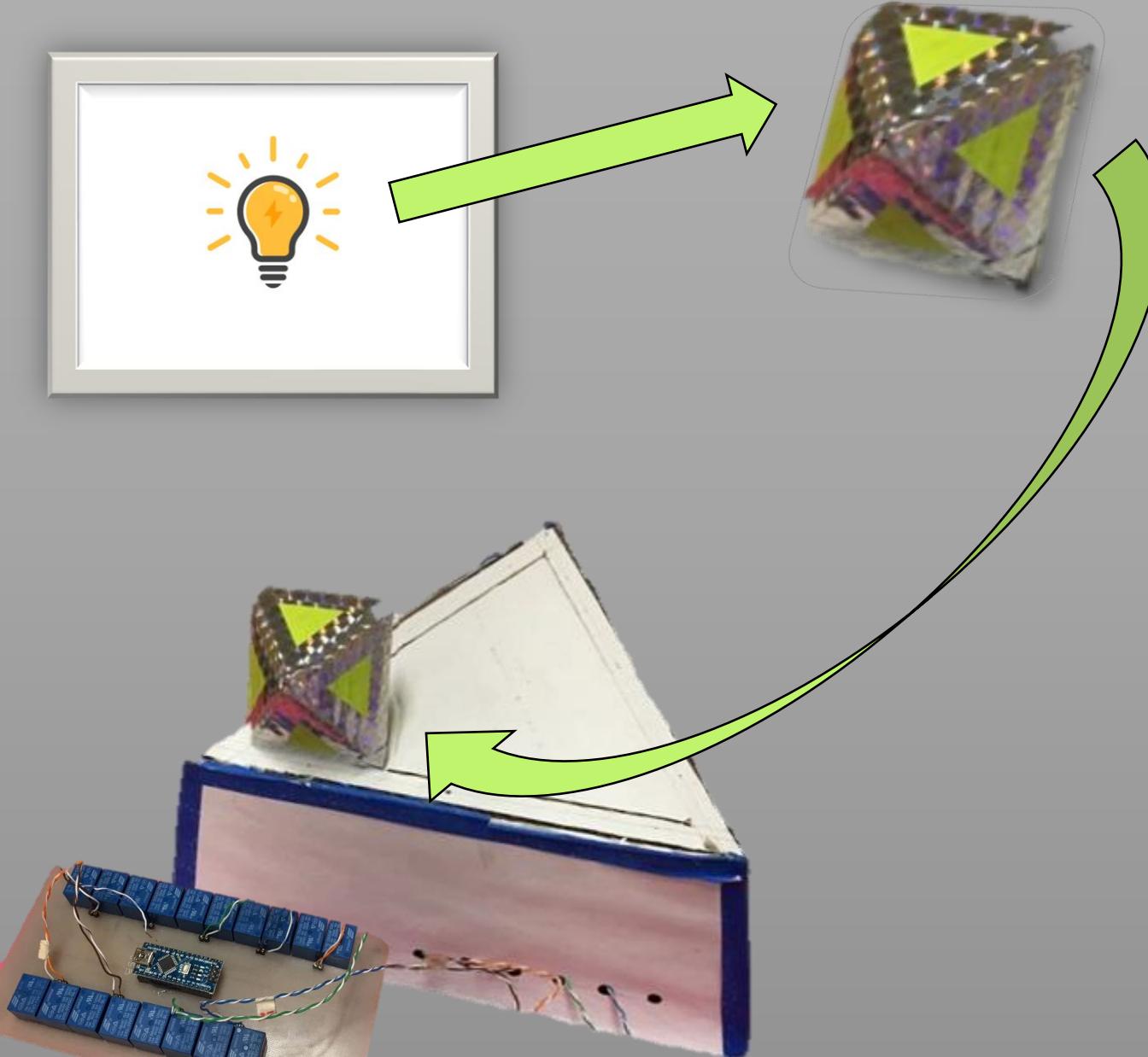


Medición y análisis de
variabilidad de la
resistencia del enchufe de
contacto

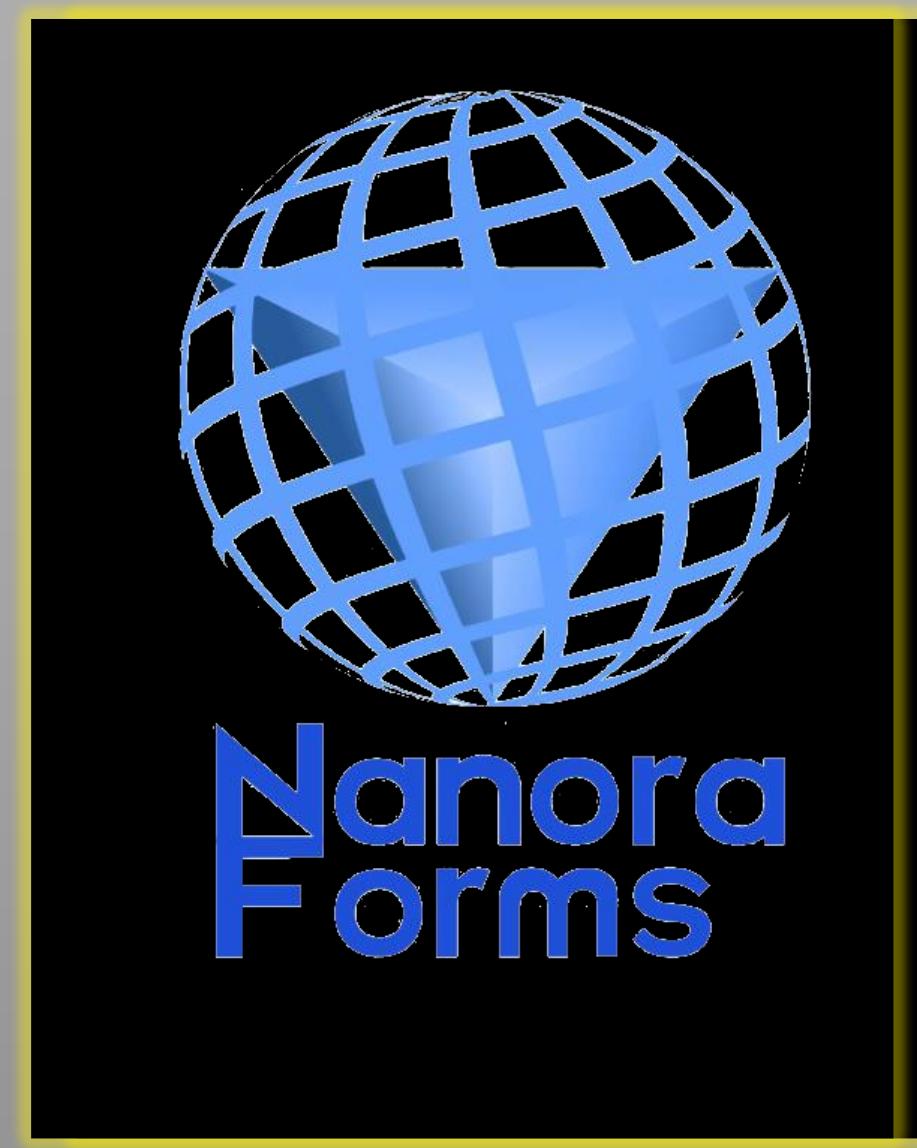
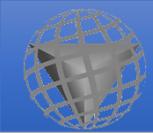


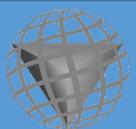


RESUMEN DE INVESTIGACIÓN



**Nanora
Forms**





Navegación

Tecnología

Robótica

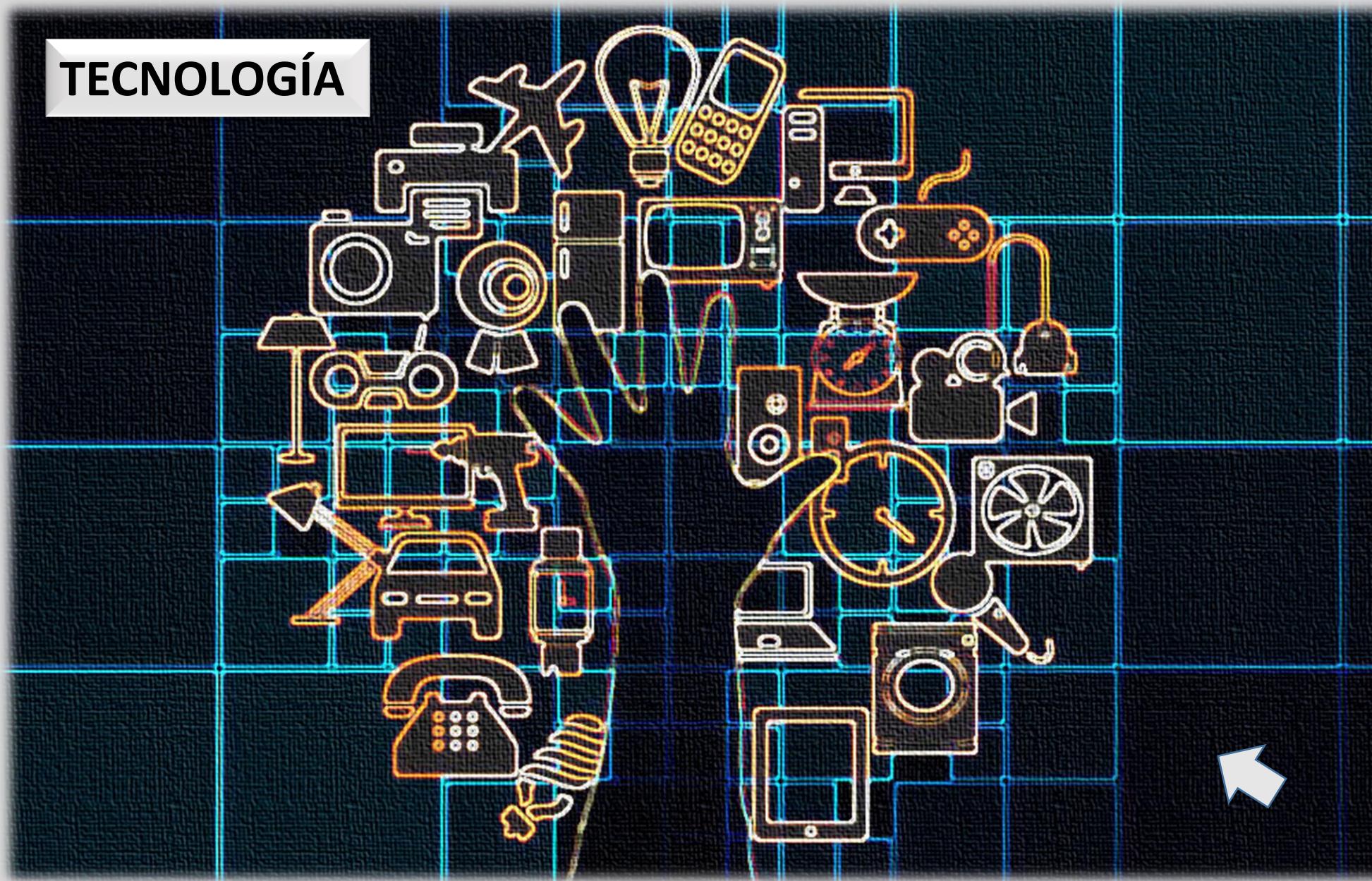
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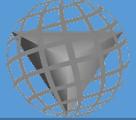
Informática

Física

Matemática

TECNOLOGÍA





Navegación

Tecnología

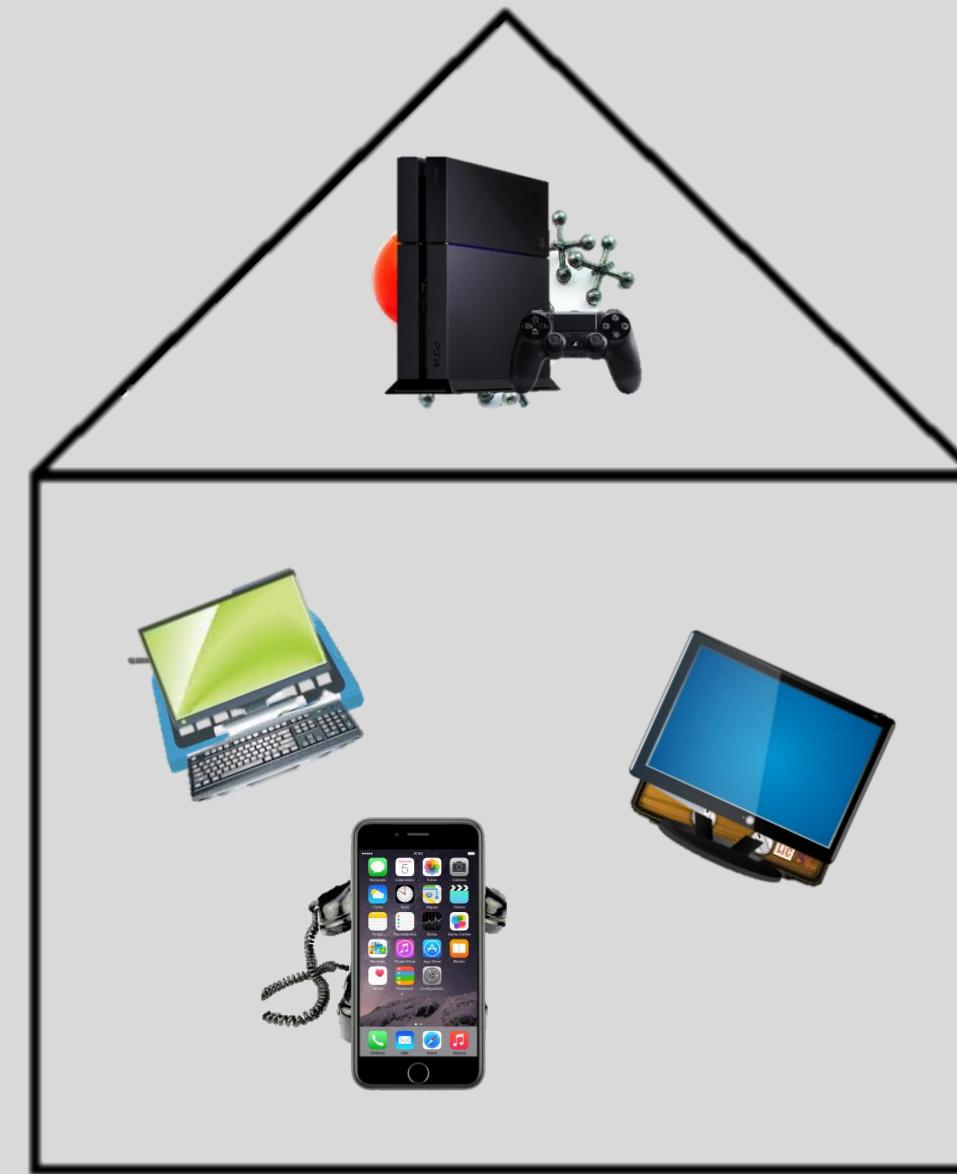
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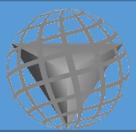
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Informática

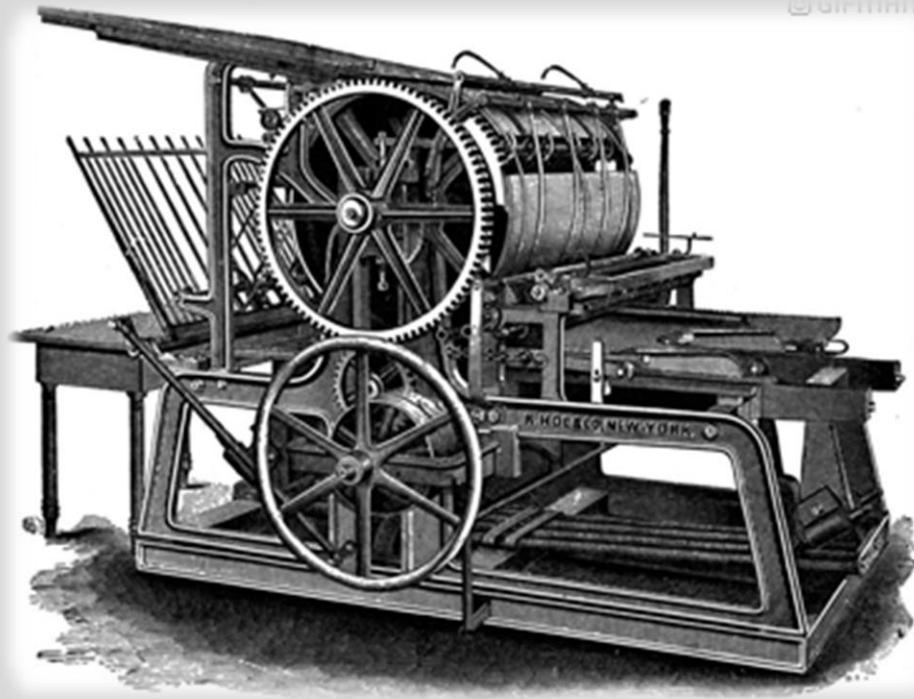
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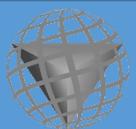
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GIFTHOUSE





Navegación

Tecnología

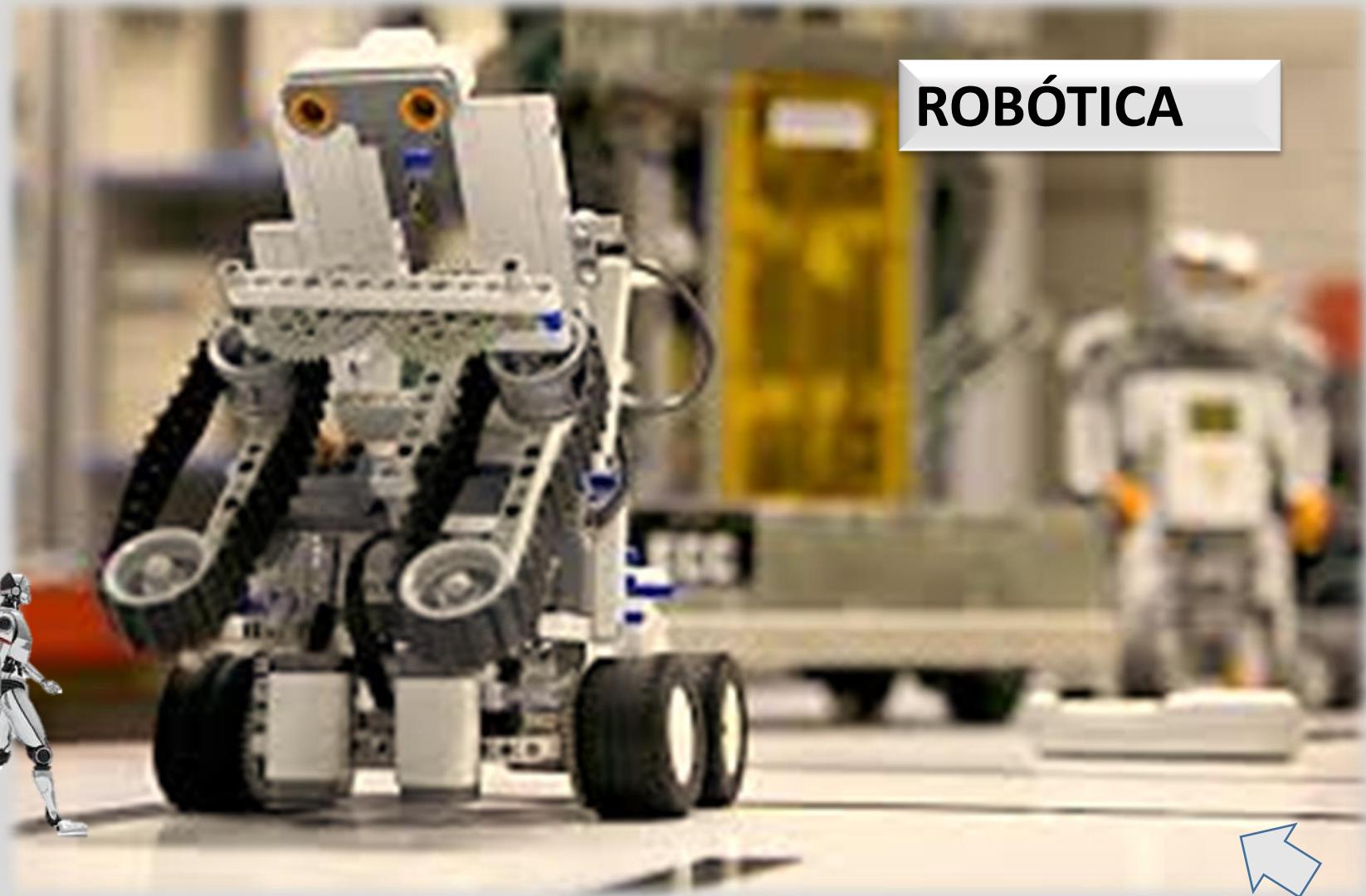
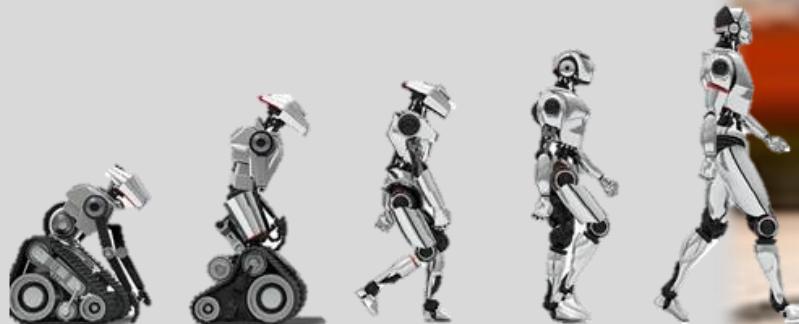
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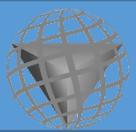
Electrónica

Informática

Física

Matemática





Navegación

Tecnología

Robótica

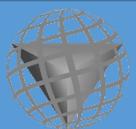
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Informática

Física

Matemática





Navegación

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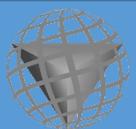
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Informática

Física

Matemática





Navegación

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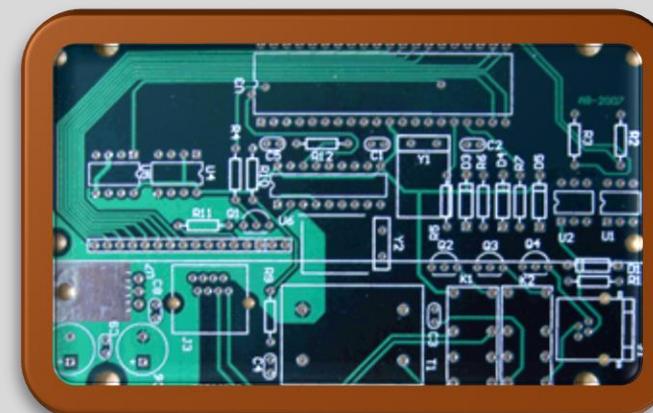
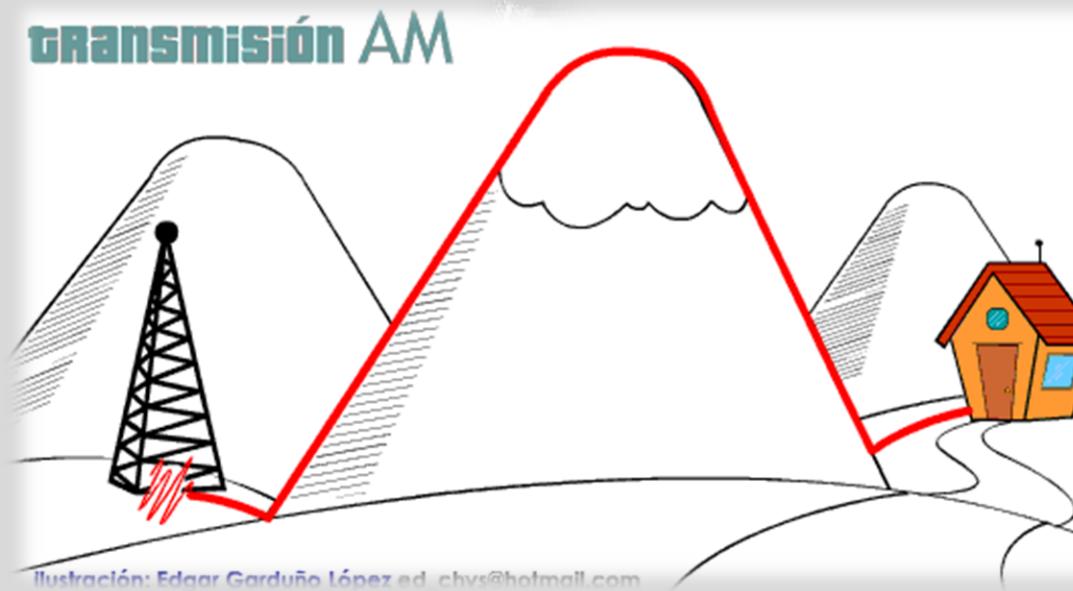
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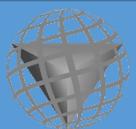
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Informática

Física

Matemática





Navegación

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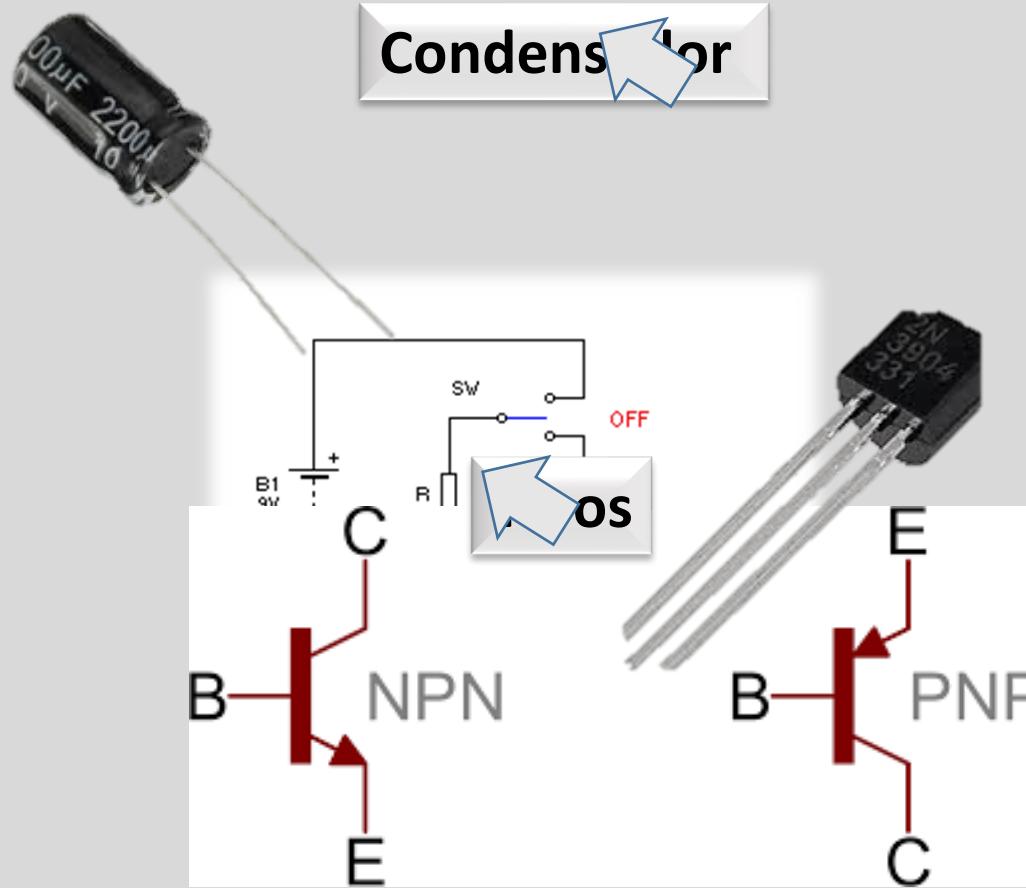
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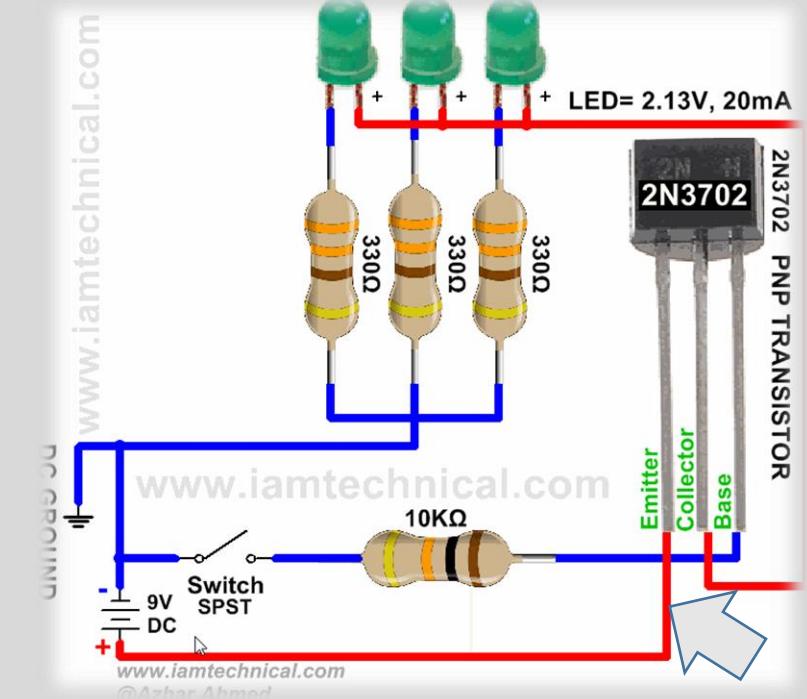
Matemática

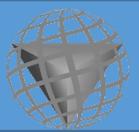
Diodos



Condensador

Transistor





Navegación

Tecnología

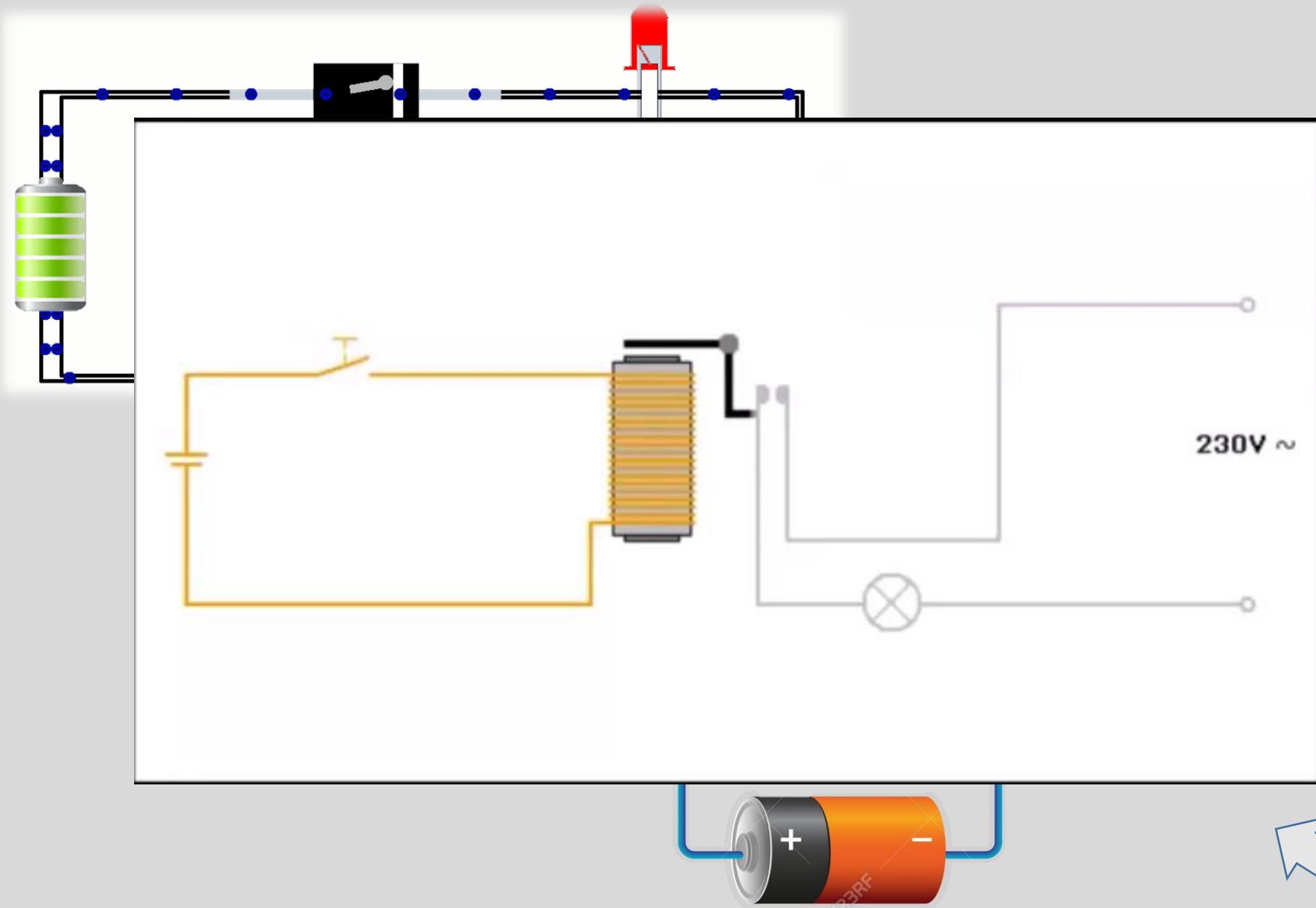
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Informática

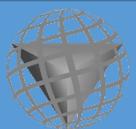
Física

Matemática



X





Navegación

Tecnología

Robótica

Electrónica

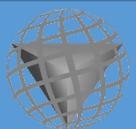
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Física

Matemática

INFORMÁTICA





Navegación

Tecnología

Robótica

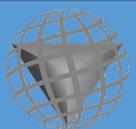
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Informática

Física

Matemática





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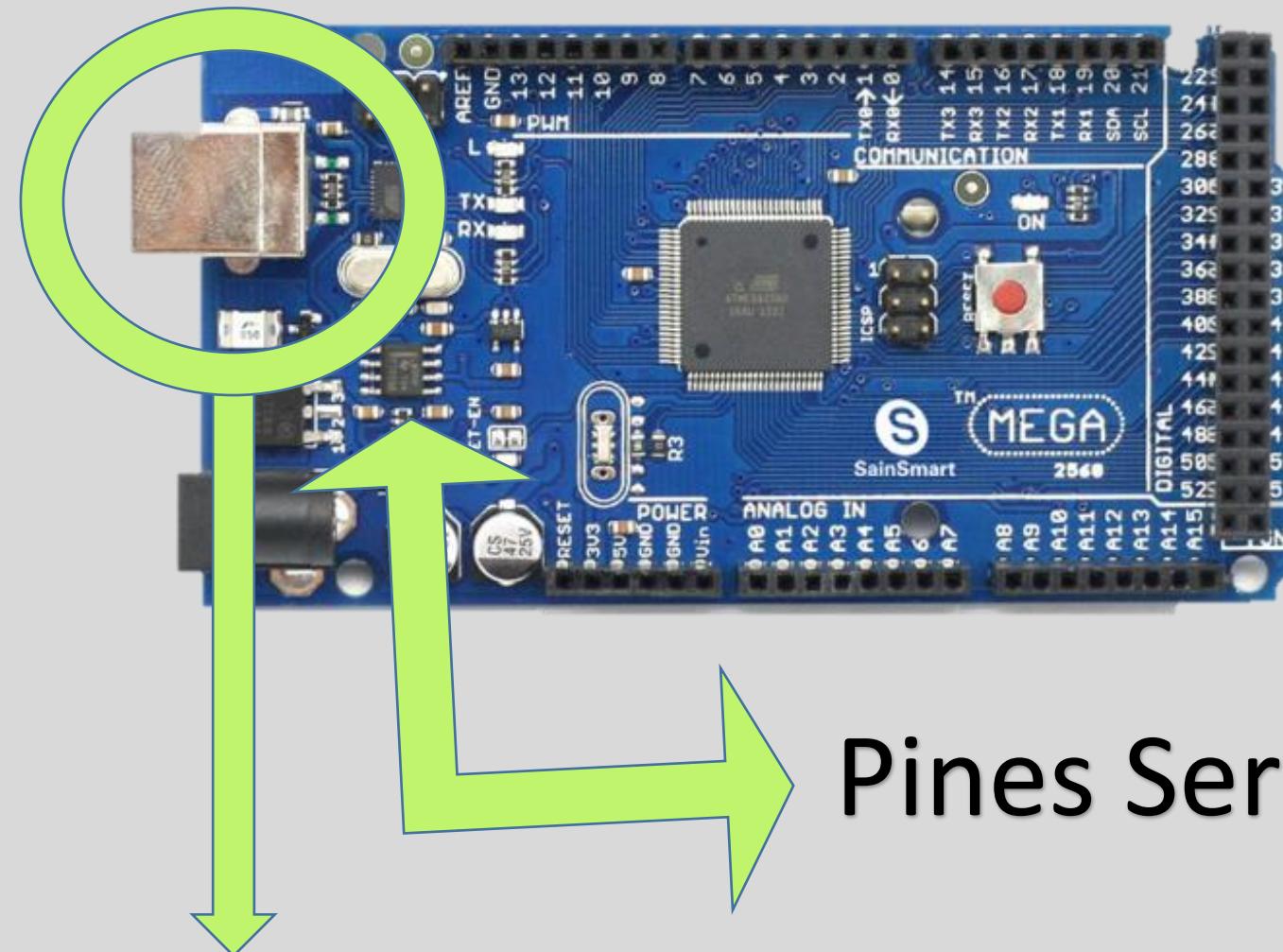
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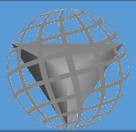
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Matemática



Puerto Serial

Pines Serial



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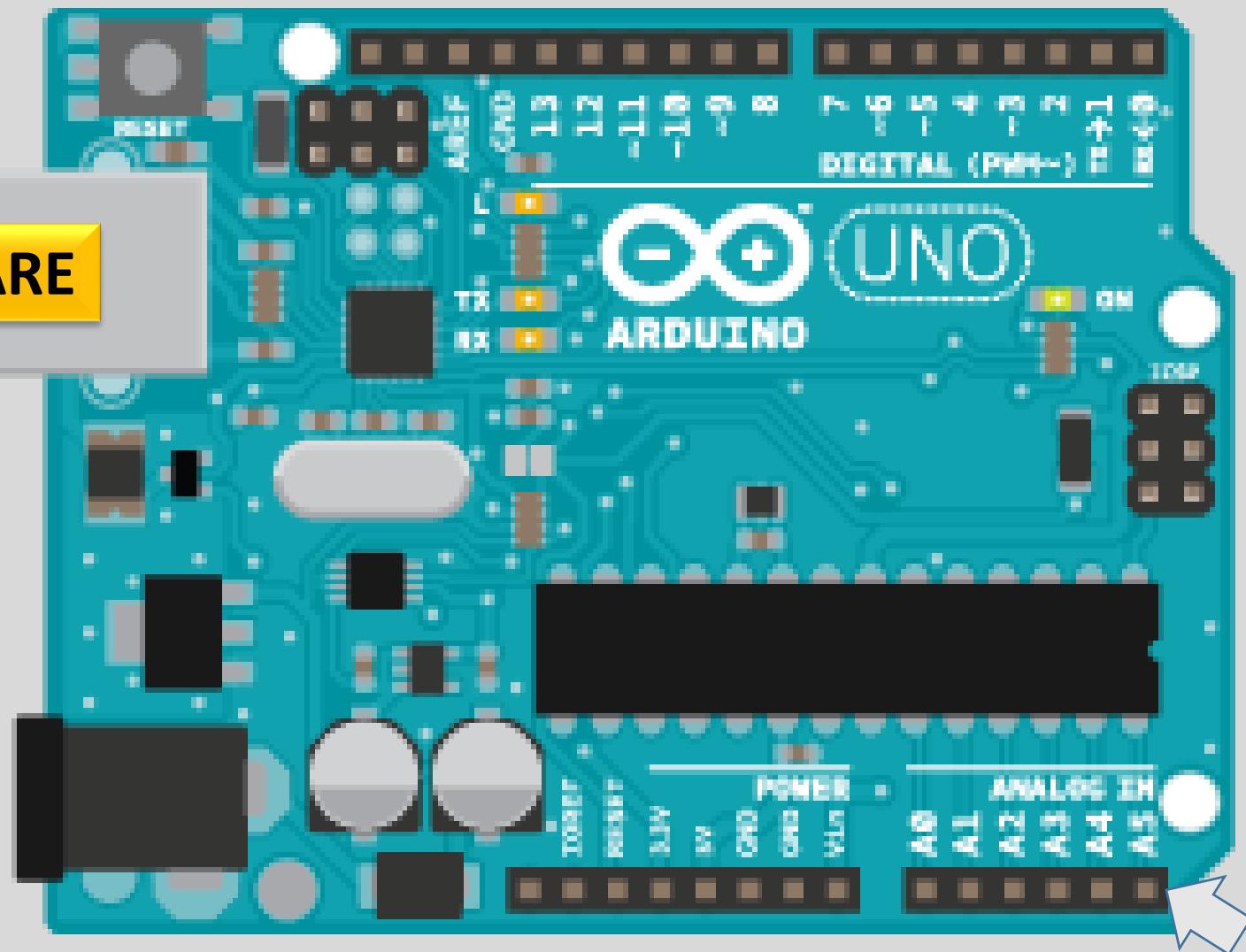
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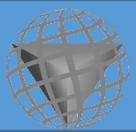
Informática

Física

Matemática

HARDWARE





Navegación

Tecnología

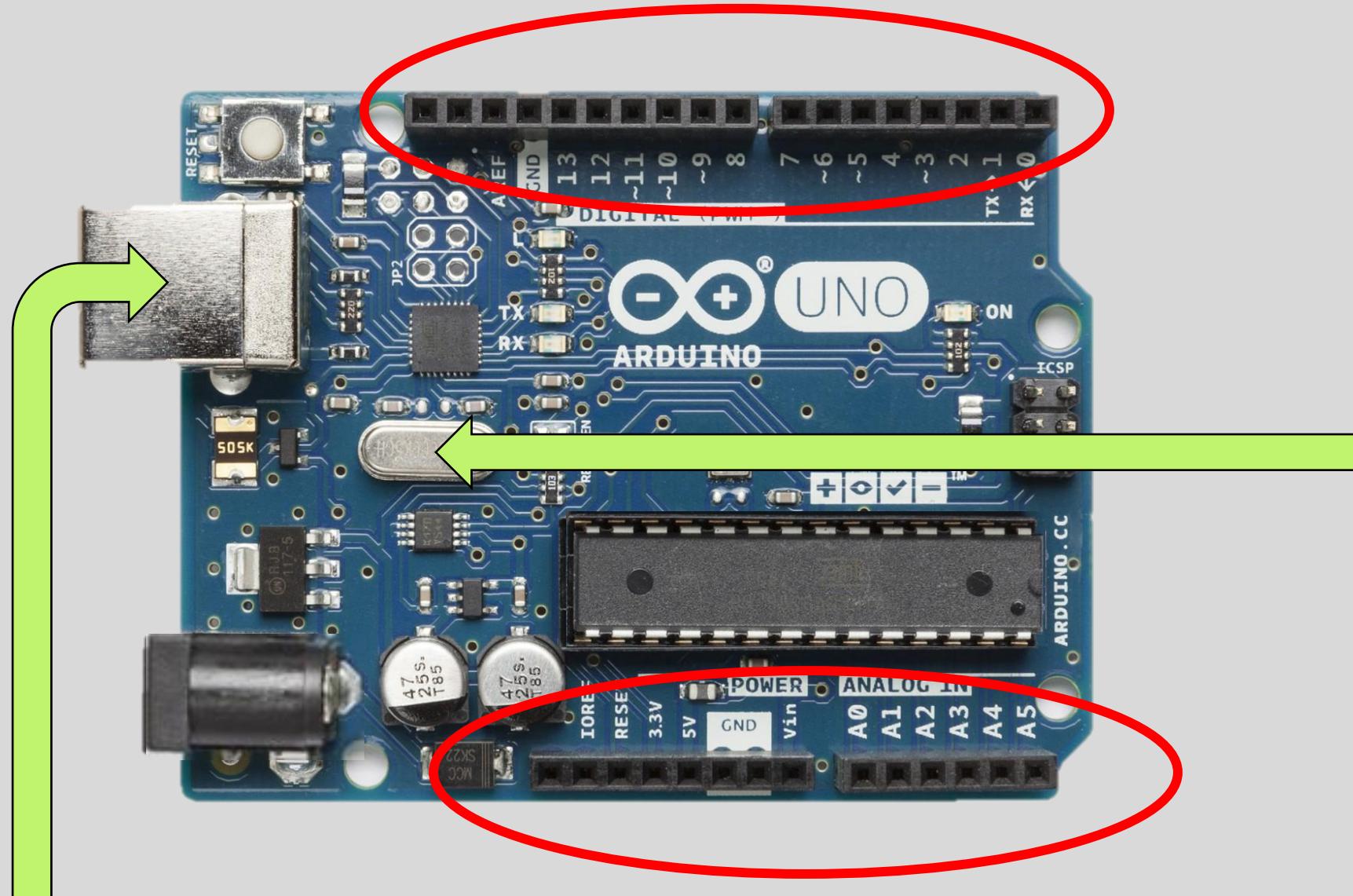
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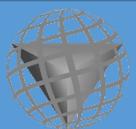
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Física

Matemática





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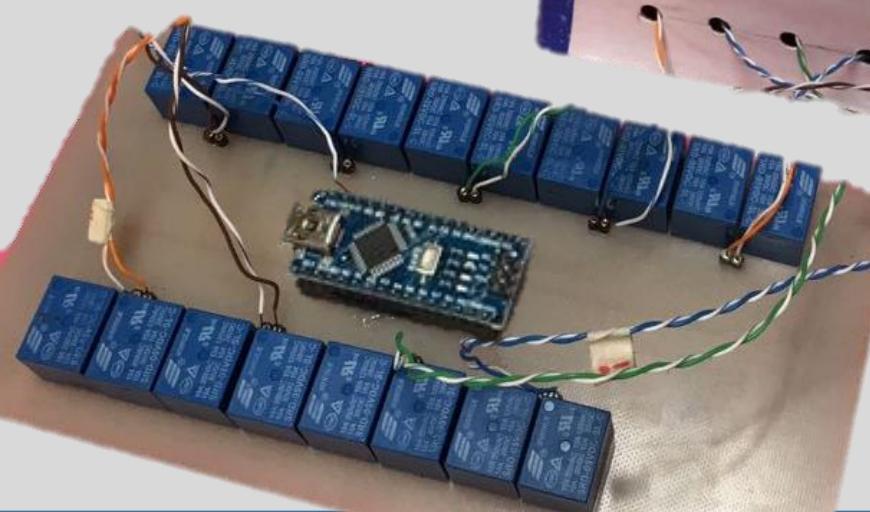
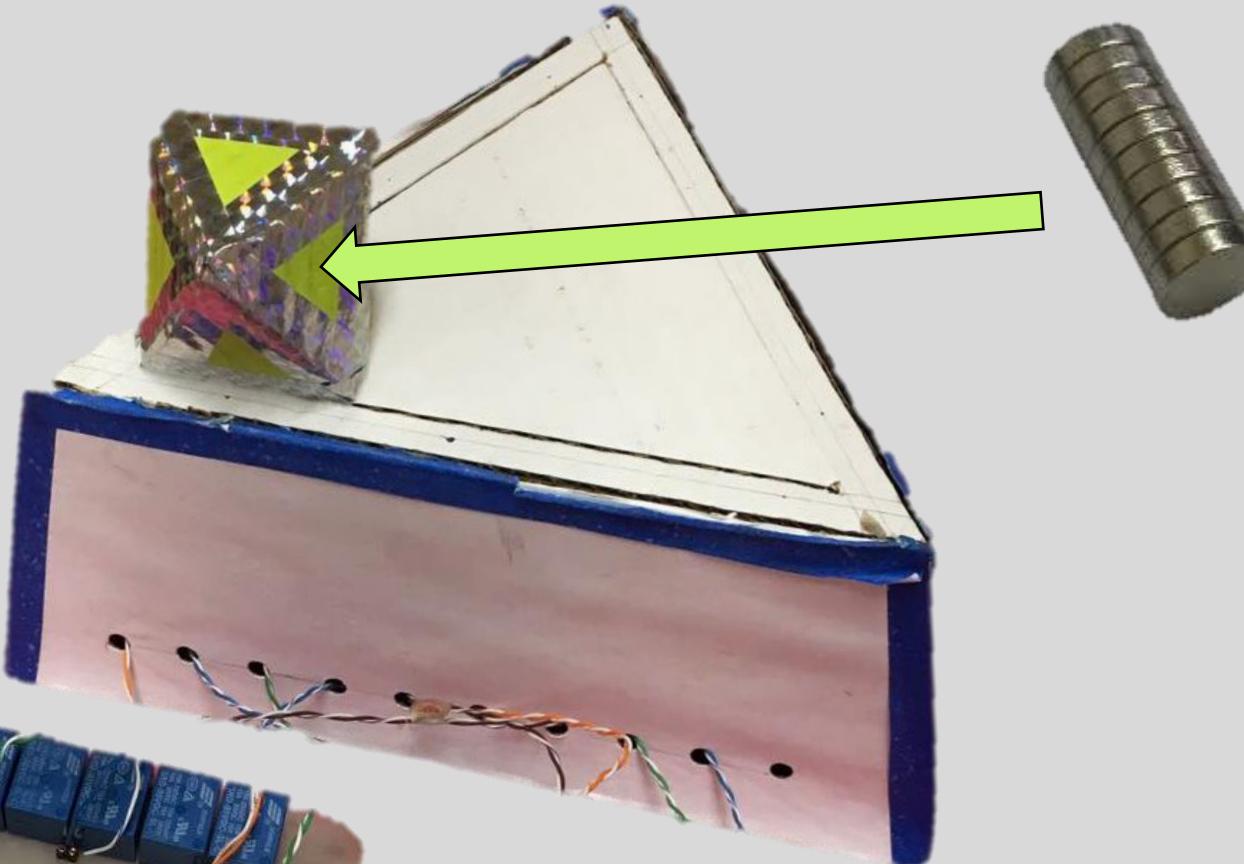
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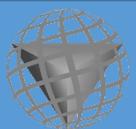
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Física

Matemática

Imán de Neodimio





Navegación

Tecnología

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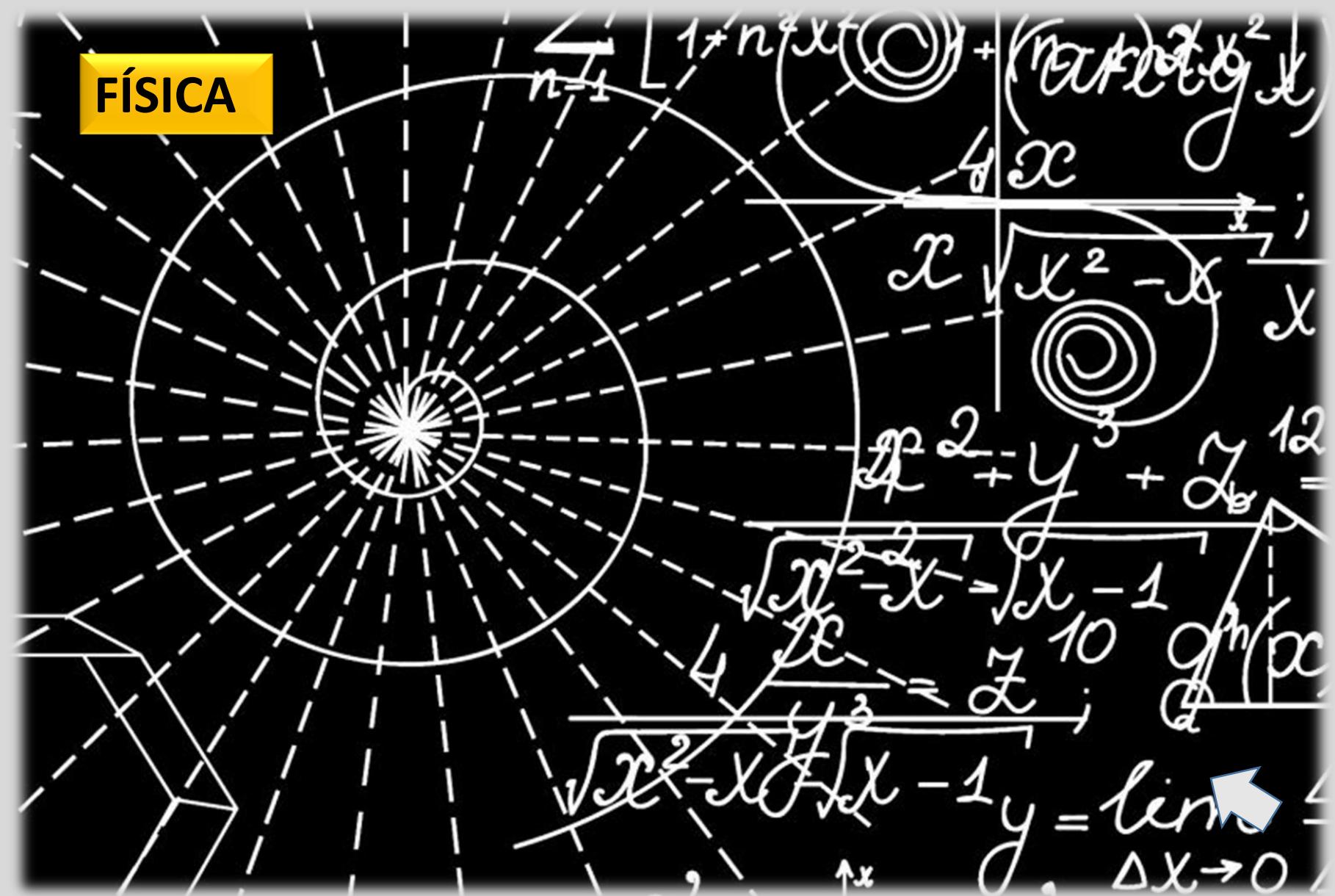
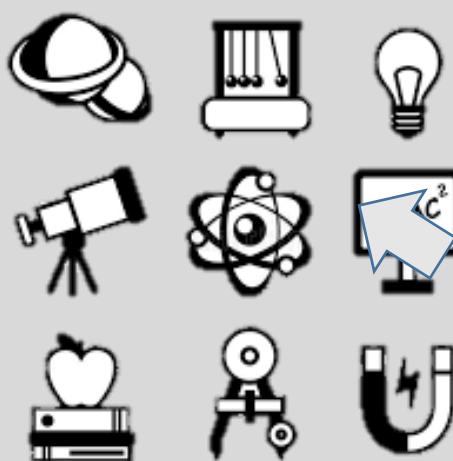
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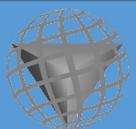
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Física

Matemática

FÍSICA





Navegación

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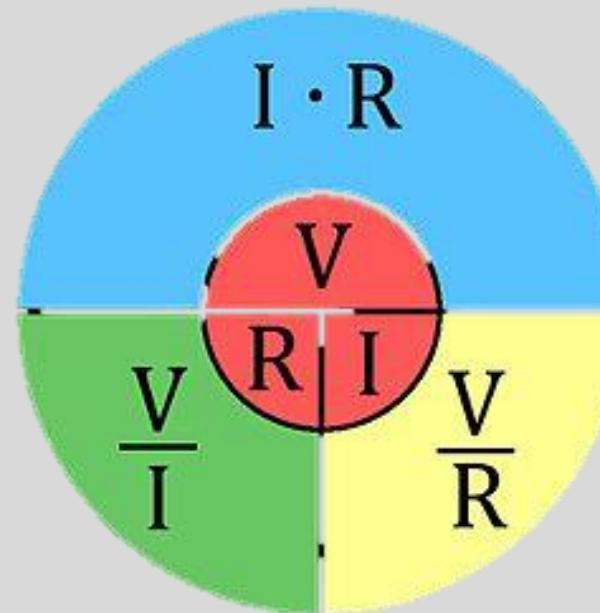
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Informática

Física

Matemática

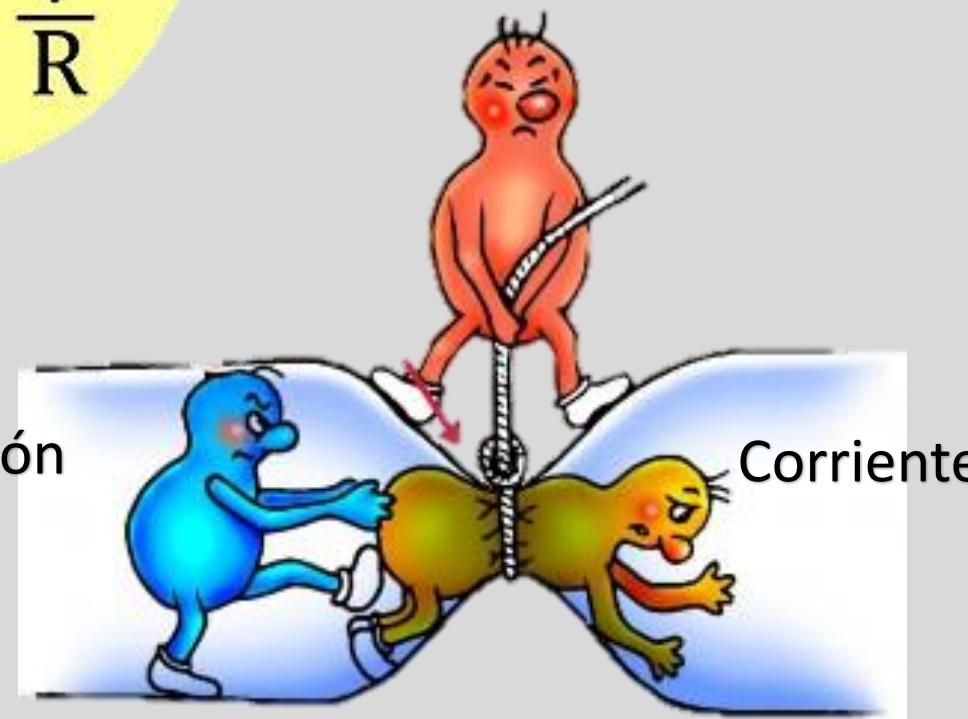


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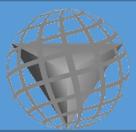
Fórmula

Aplicación

Resistencia



Resistencia



Navegación

Tecnología

Robótica

Electrónica

Informática

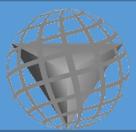
Física

Matemática



Electromagnetismo





Navegación

Tecnología

Robótica

Electrónica

Informática

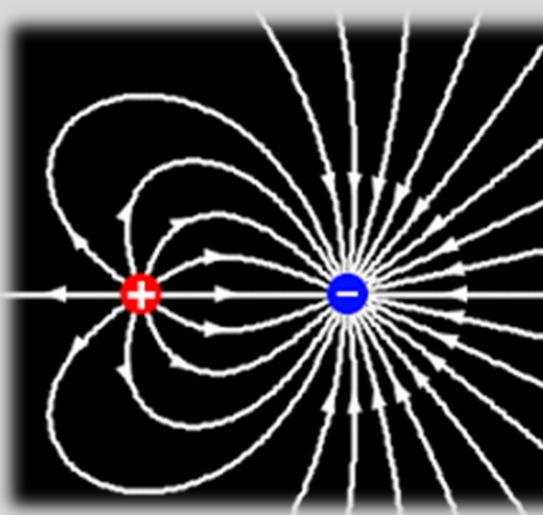
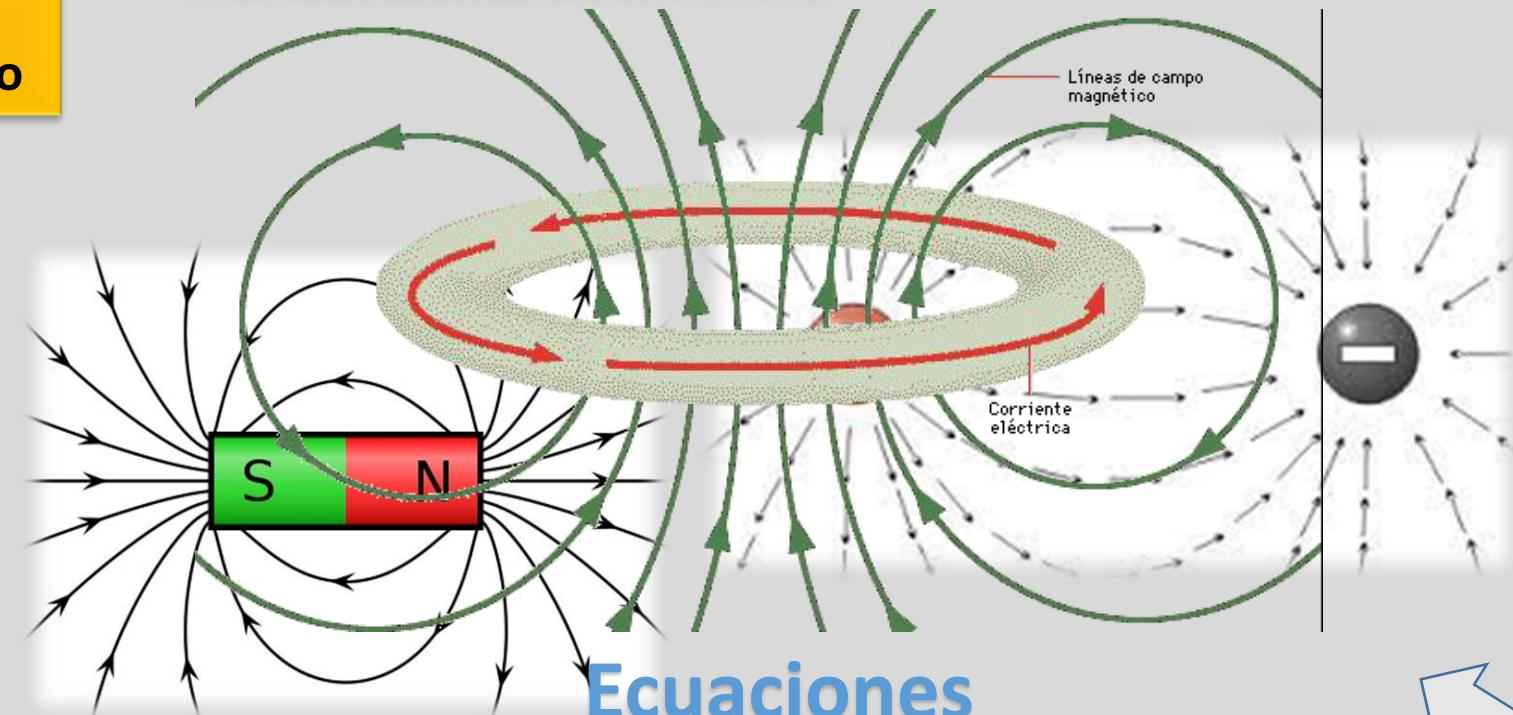
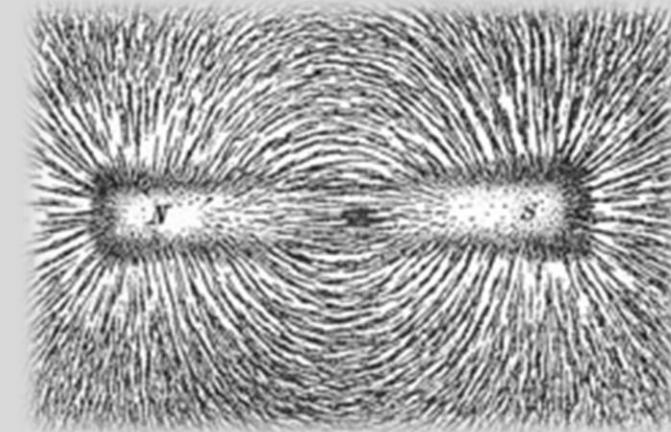
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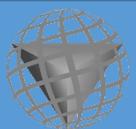
Campo Eléctrico

Campo Magnético

Campo Electromagnético



Ecuaciones



Navegación

Tecnología

Robótica

Electrónica

Informática

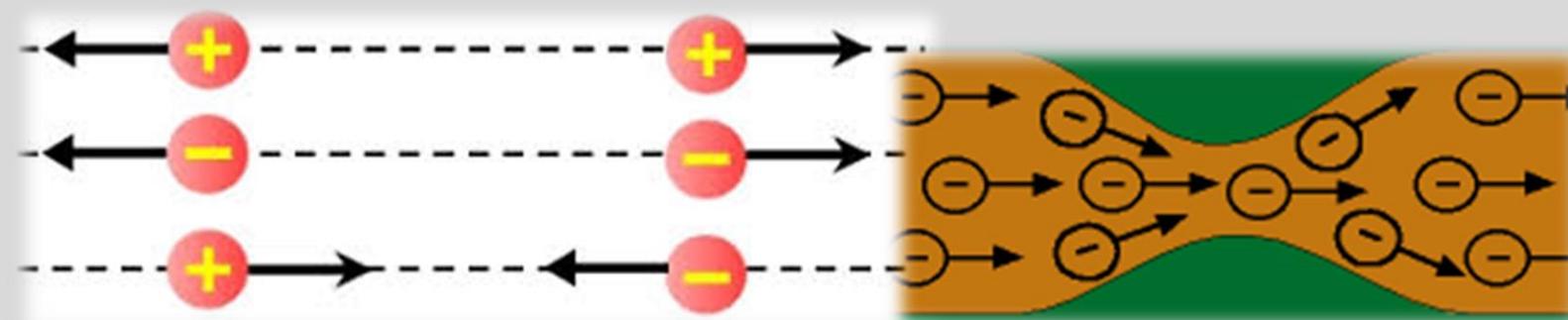
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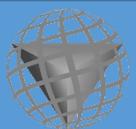
Matemática

Fuerza

Resistencia

$$\text{Fuerza} = ((N \times I)^2 \times k \times A) / (2 \times g^2)$$
$$\text{Resistencia} = \frac{\mu \times N \times V}{2Br}$$





Navegación

Tecnología

Robótica

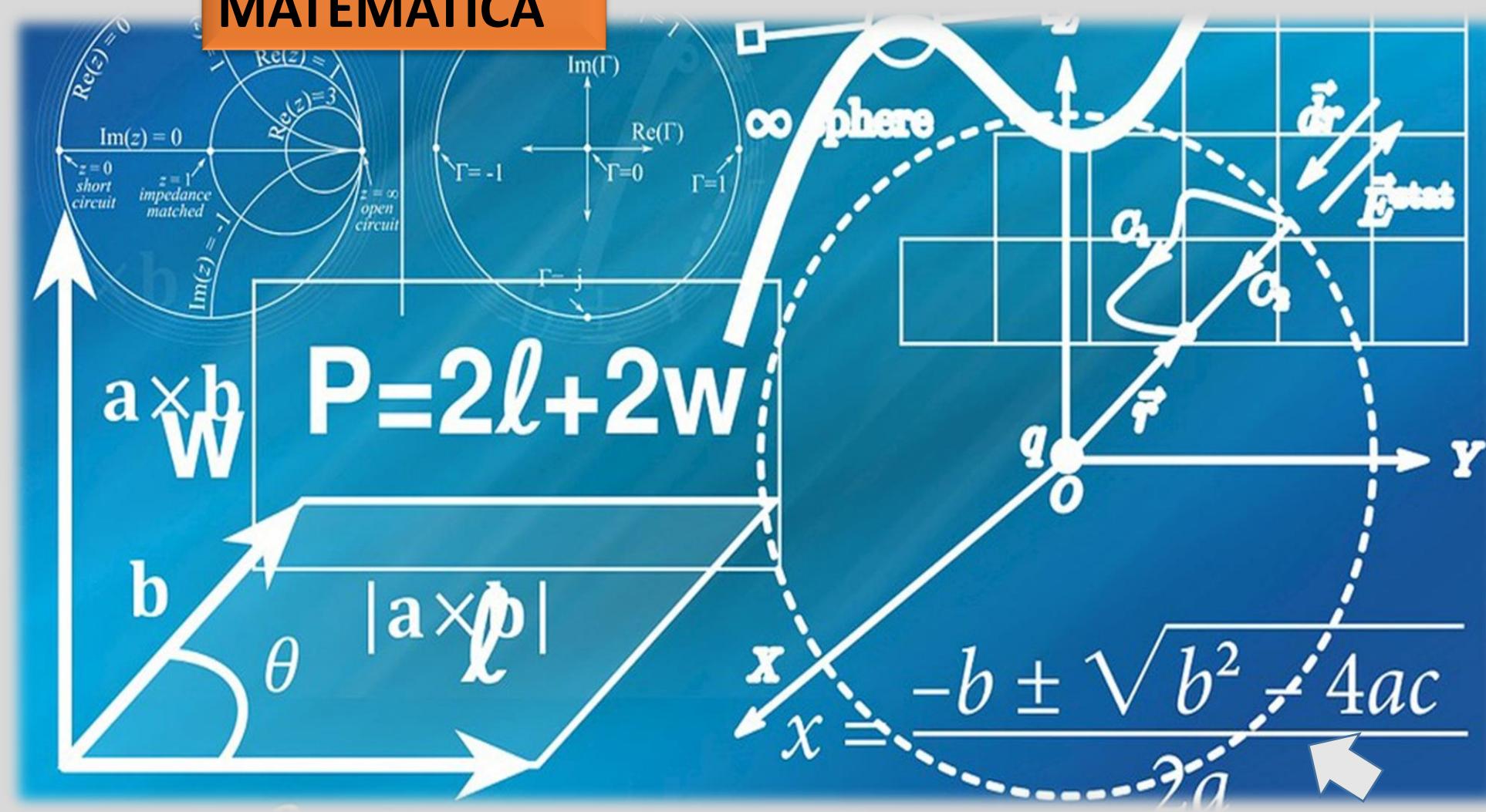
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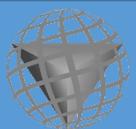
Informática

Física

Matemática

MATEMÁTICA





Navegación

Tecnología

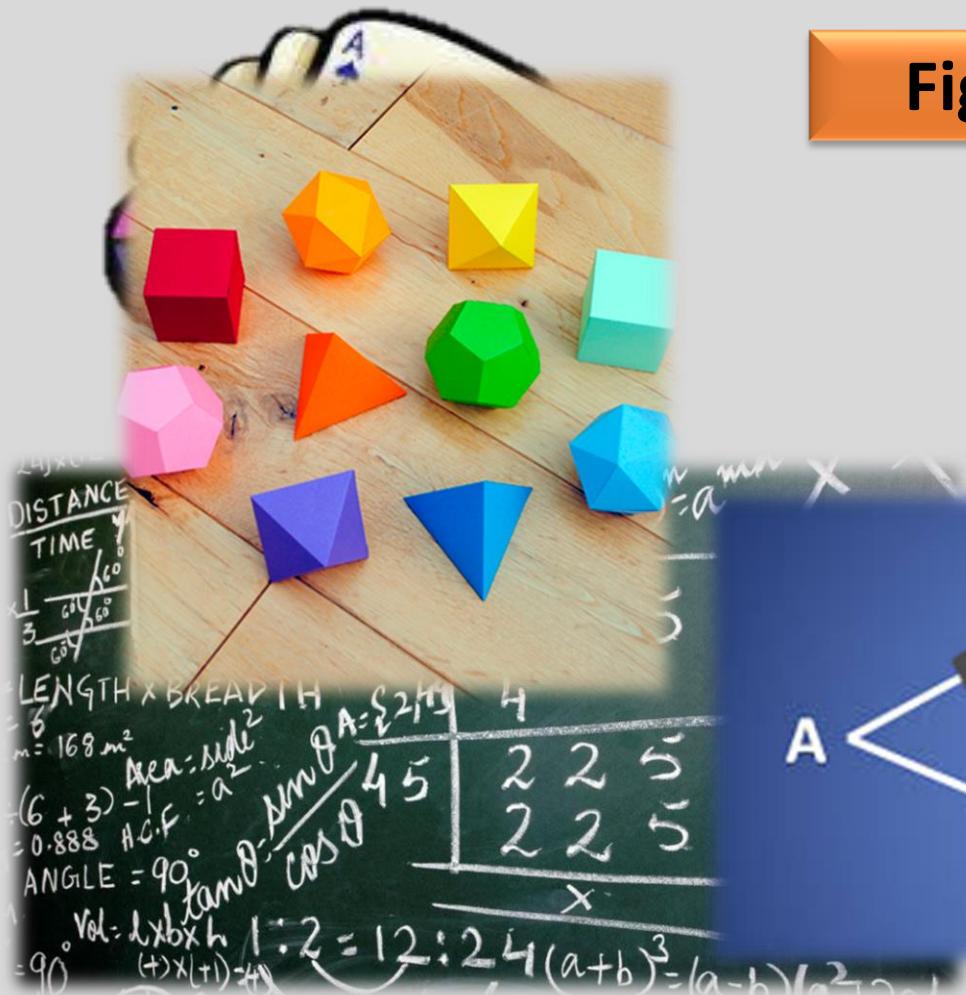
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Informática

Física

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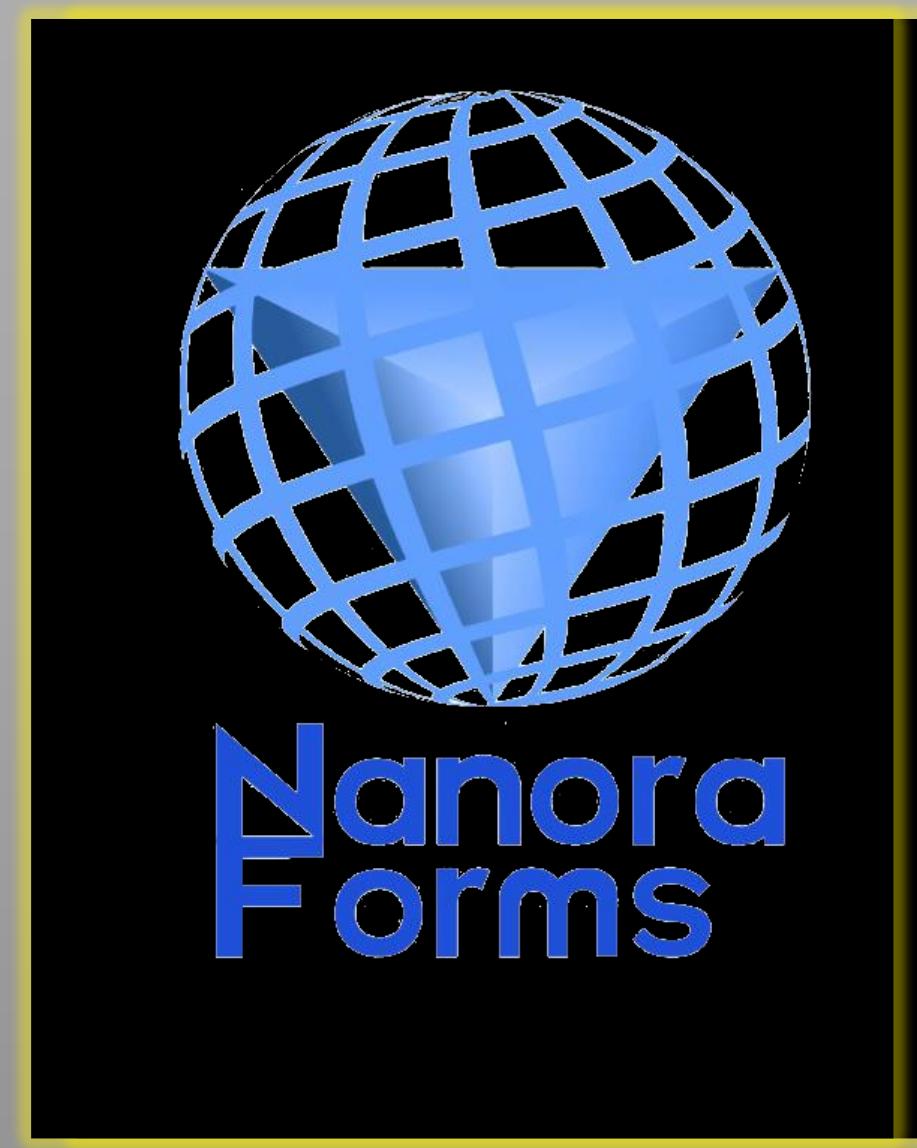
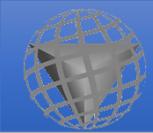


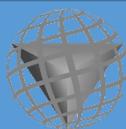
Figuras

Algoritmos

Combinatoria







Objetivos

General

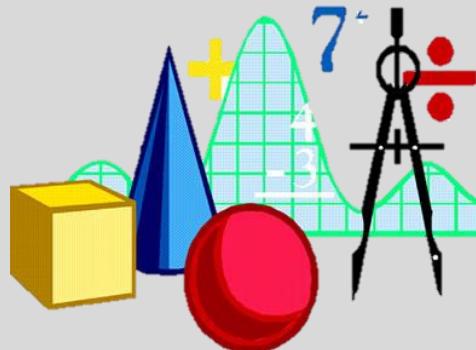
Palabras Clave

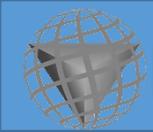
Prototipo

Específicos

Nuevo recurso
Aplicación de Electromagnetismo

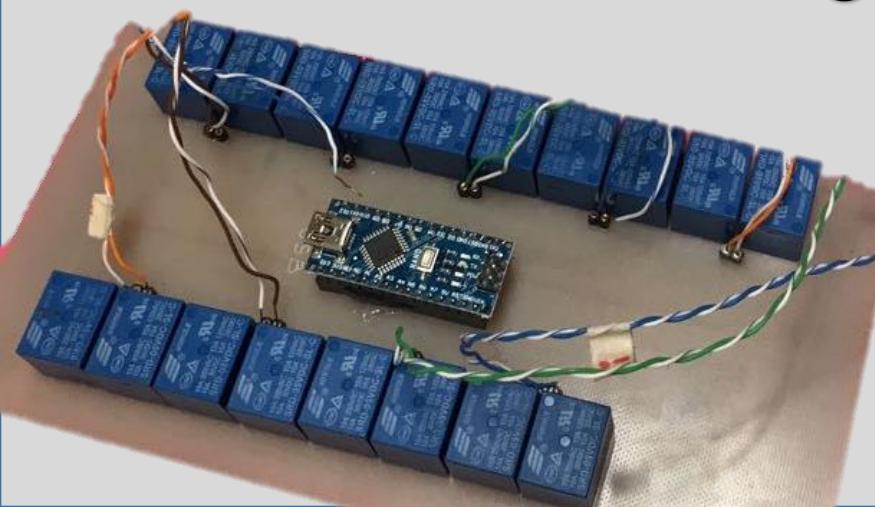
Realizar el NanoraForms
Funcionalidad
Viabilidad

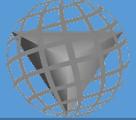




Hipótesis

- Realizar
- Conectar
- Crear
- Comprobar





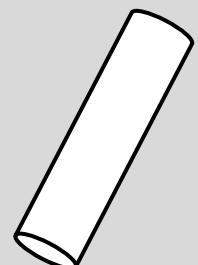
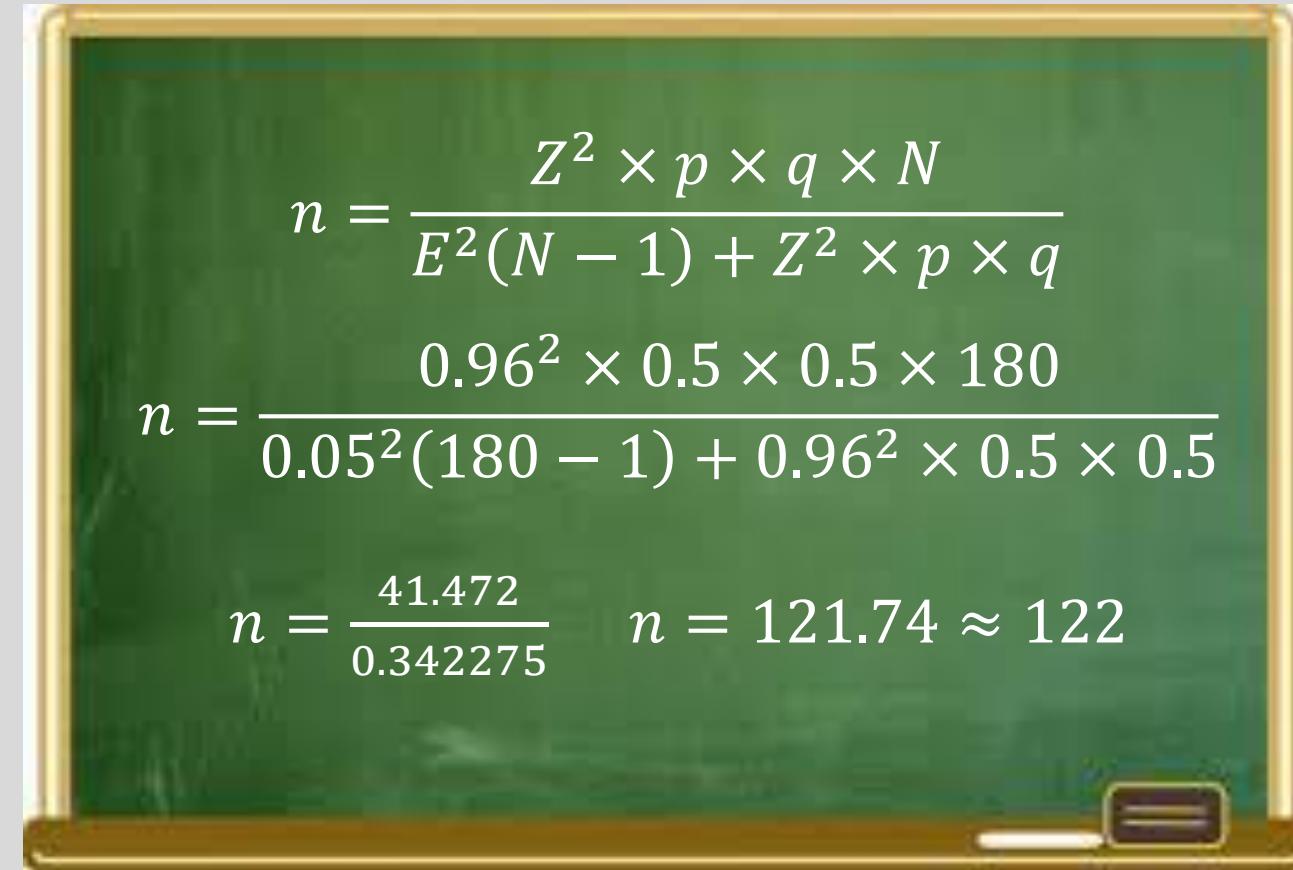
Muestreo

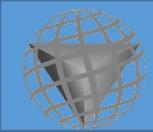
Probabilístico

$$n = \frac{Z^2 \times p \times q \times N}{E^2(N - 1) + Z^2 \times p \times q}$$

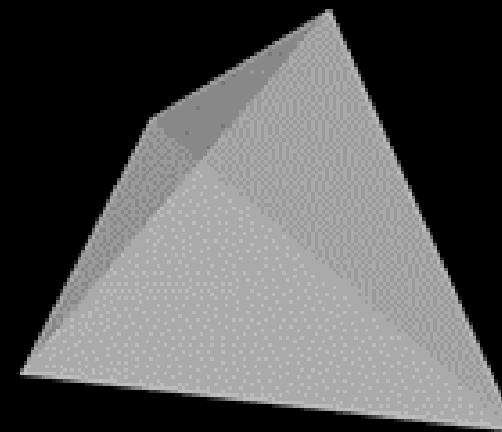
$$n = \frac{0.96^2 \times 0.5 \times 0.5 \times 180}{0.05^2(180 - 1) + 0.96^2 \times 0.5 \times 0.5}$$

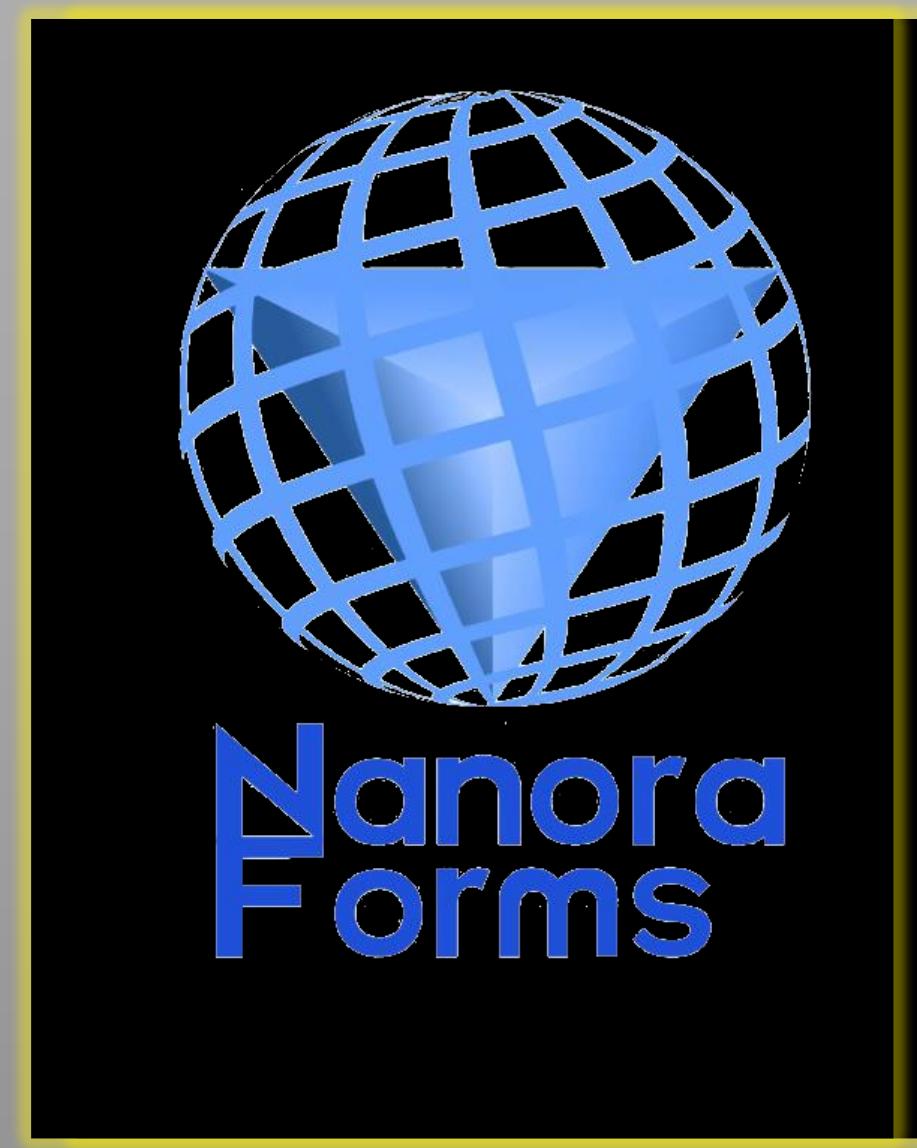
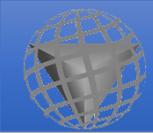
$$n = \frac{41.472}{0.342275} \quad n = 121.74 \approx 122$$

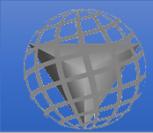




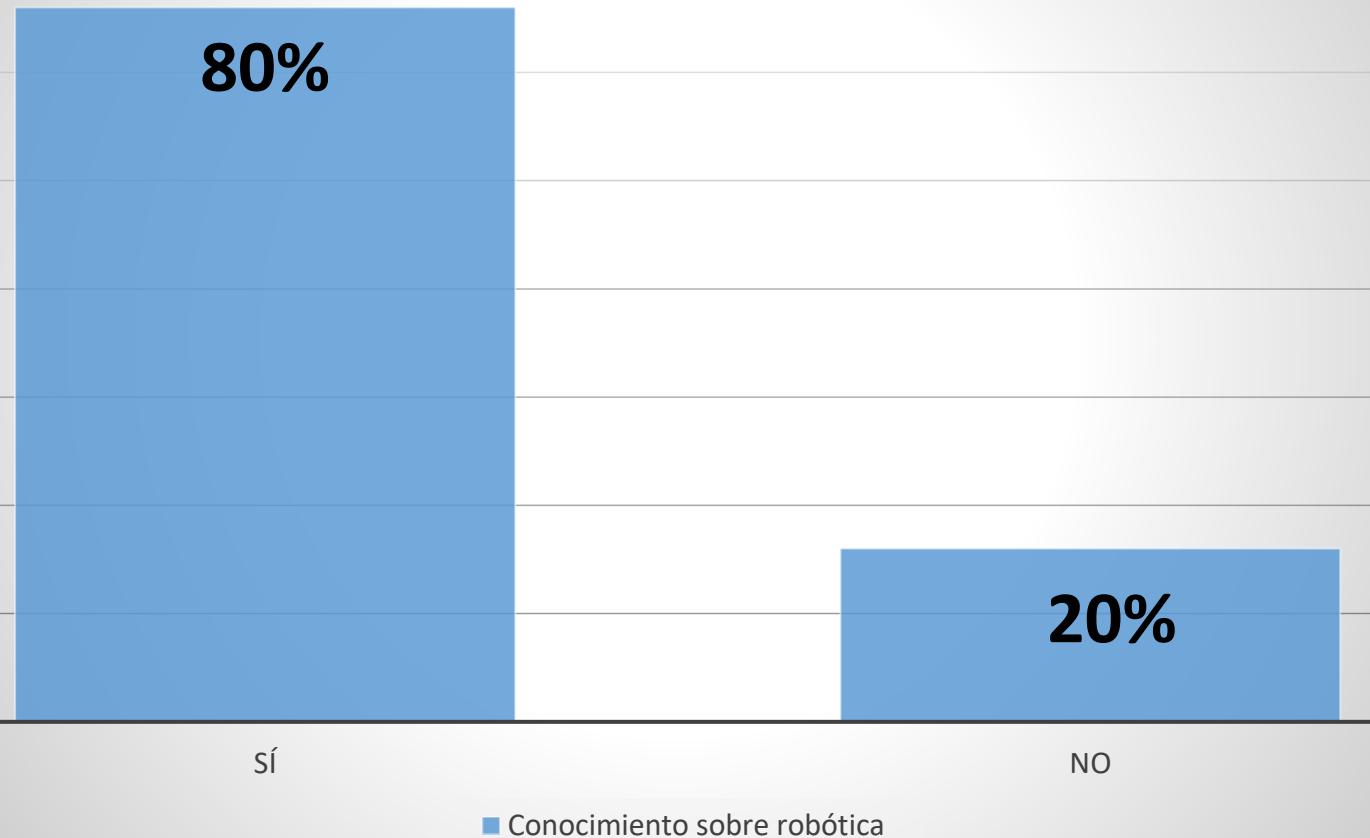
PROTOTIPO

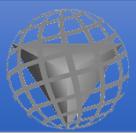




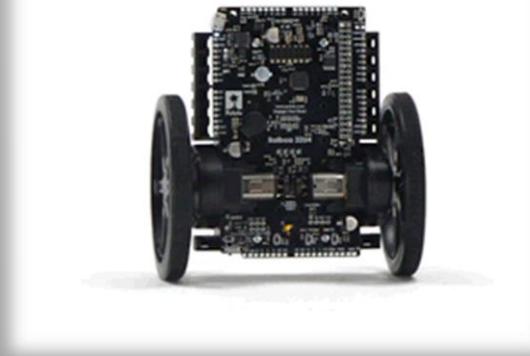
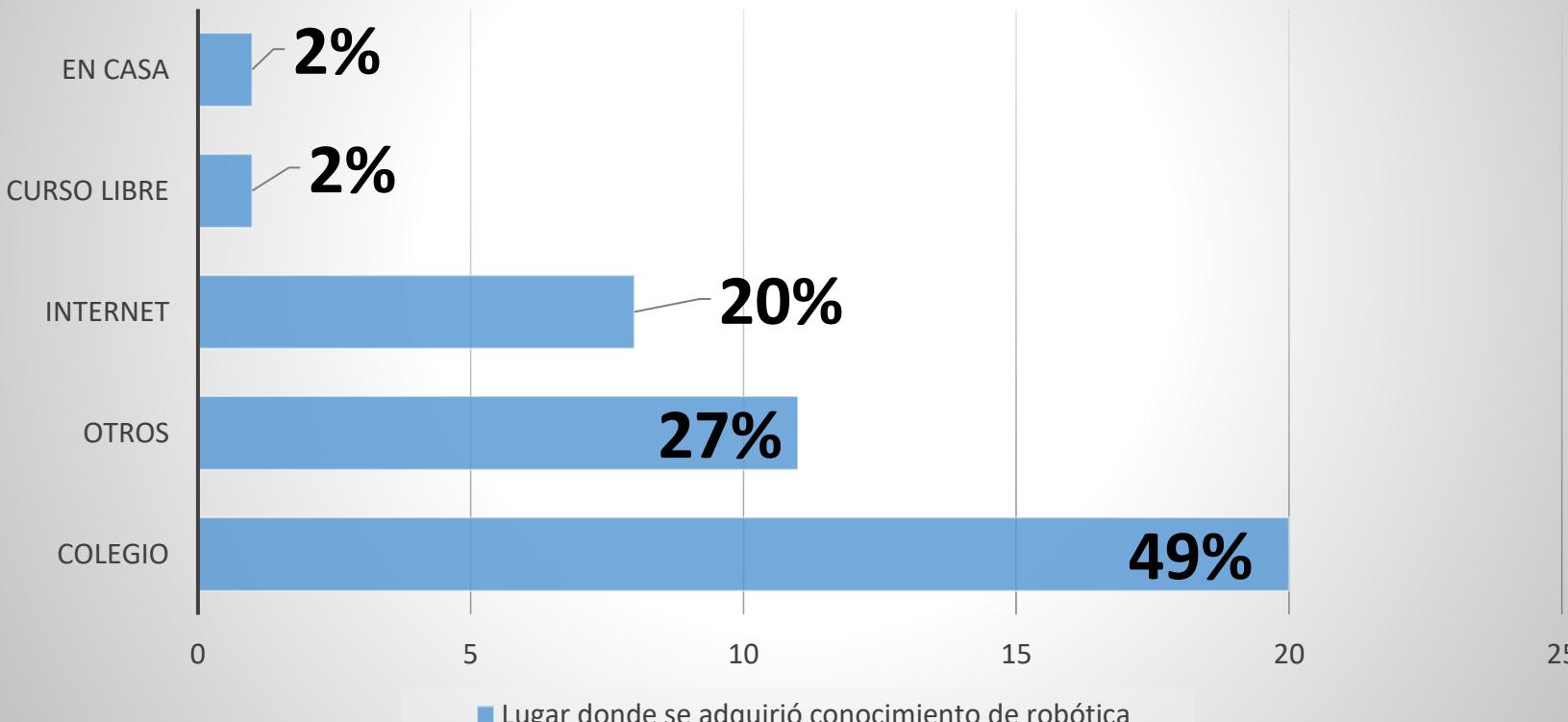


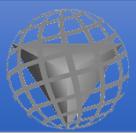
Conocimiento sobre robótica



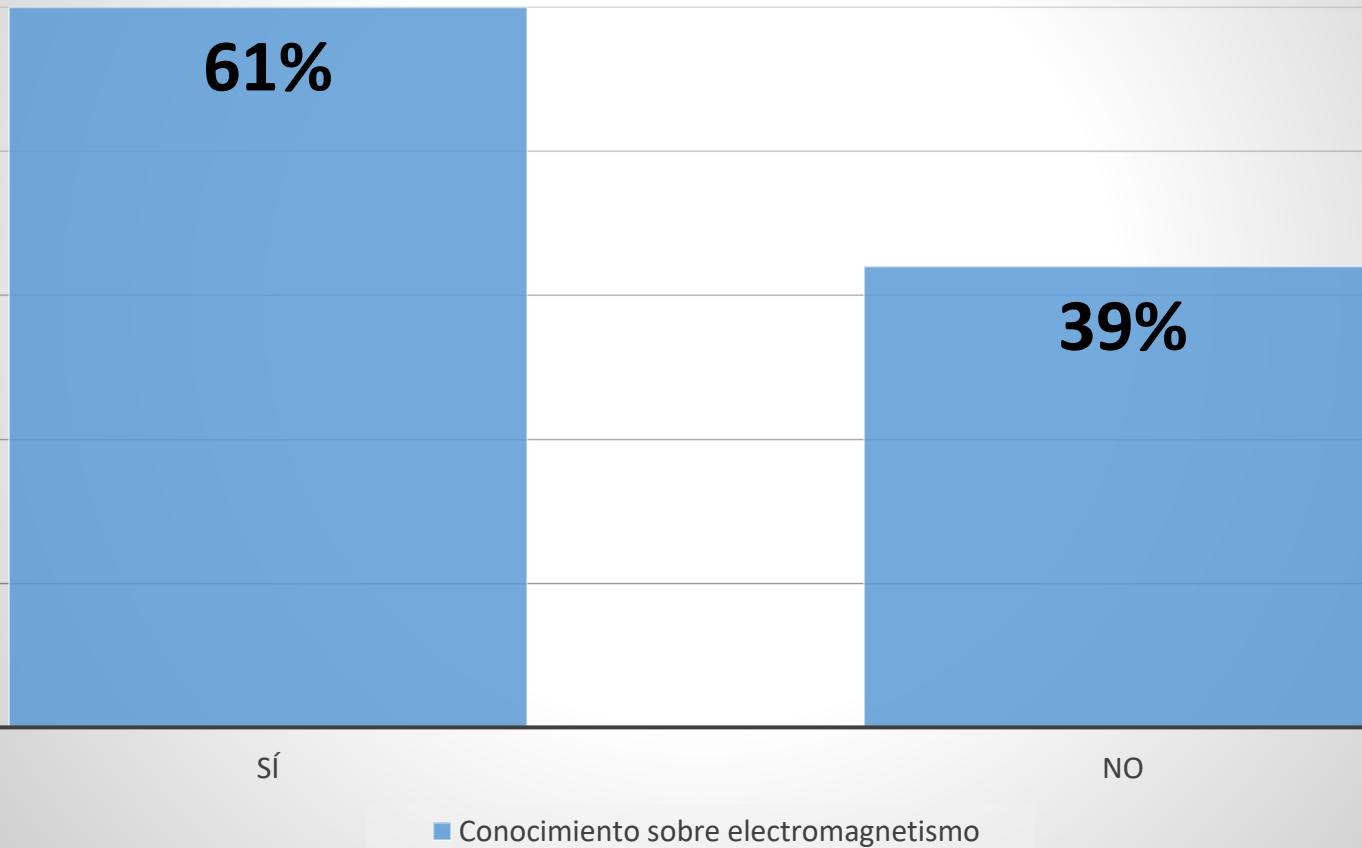


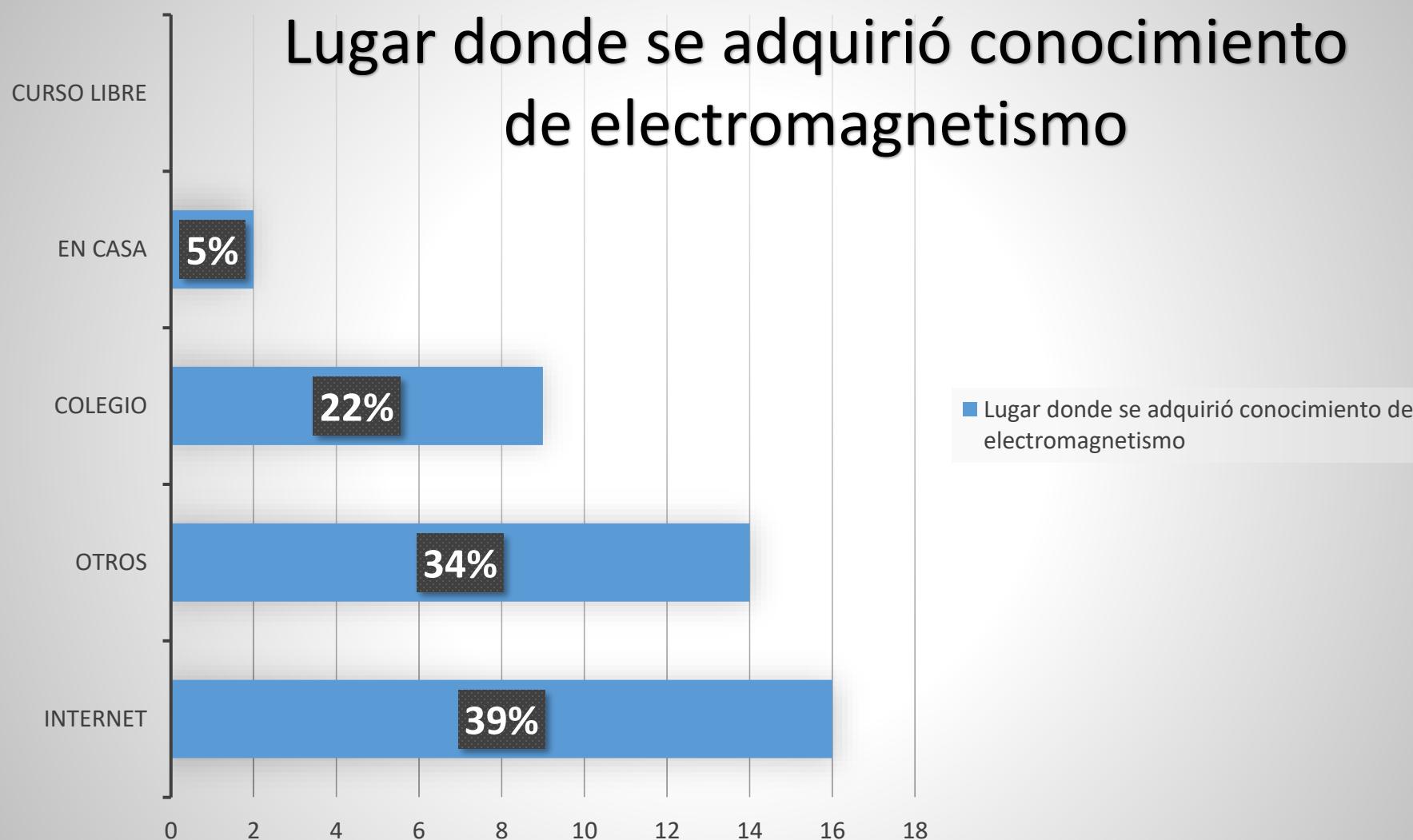
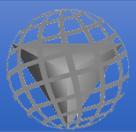
Lugar donde se adquirió conocimiento de robótica

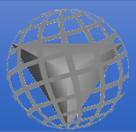




Conocimiento sobre electromagnetismo

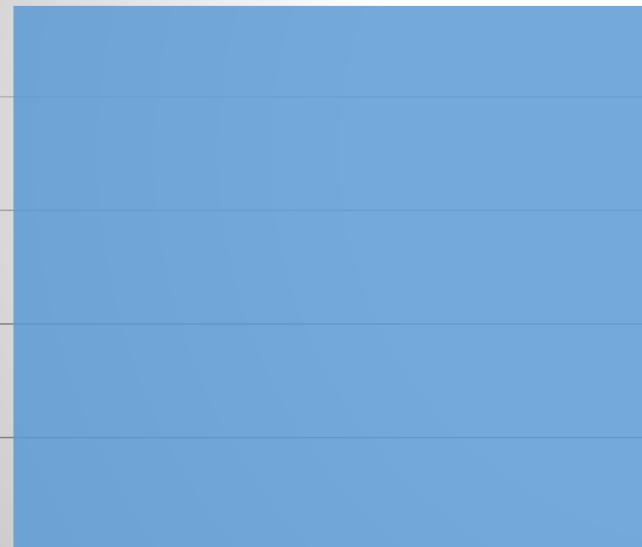






Promoción de actividades tecnológicas

59%



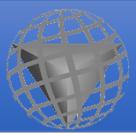
41%

No

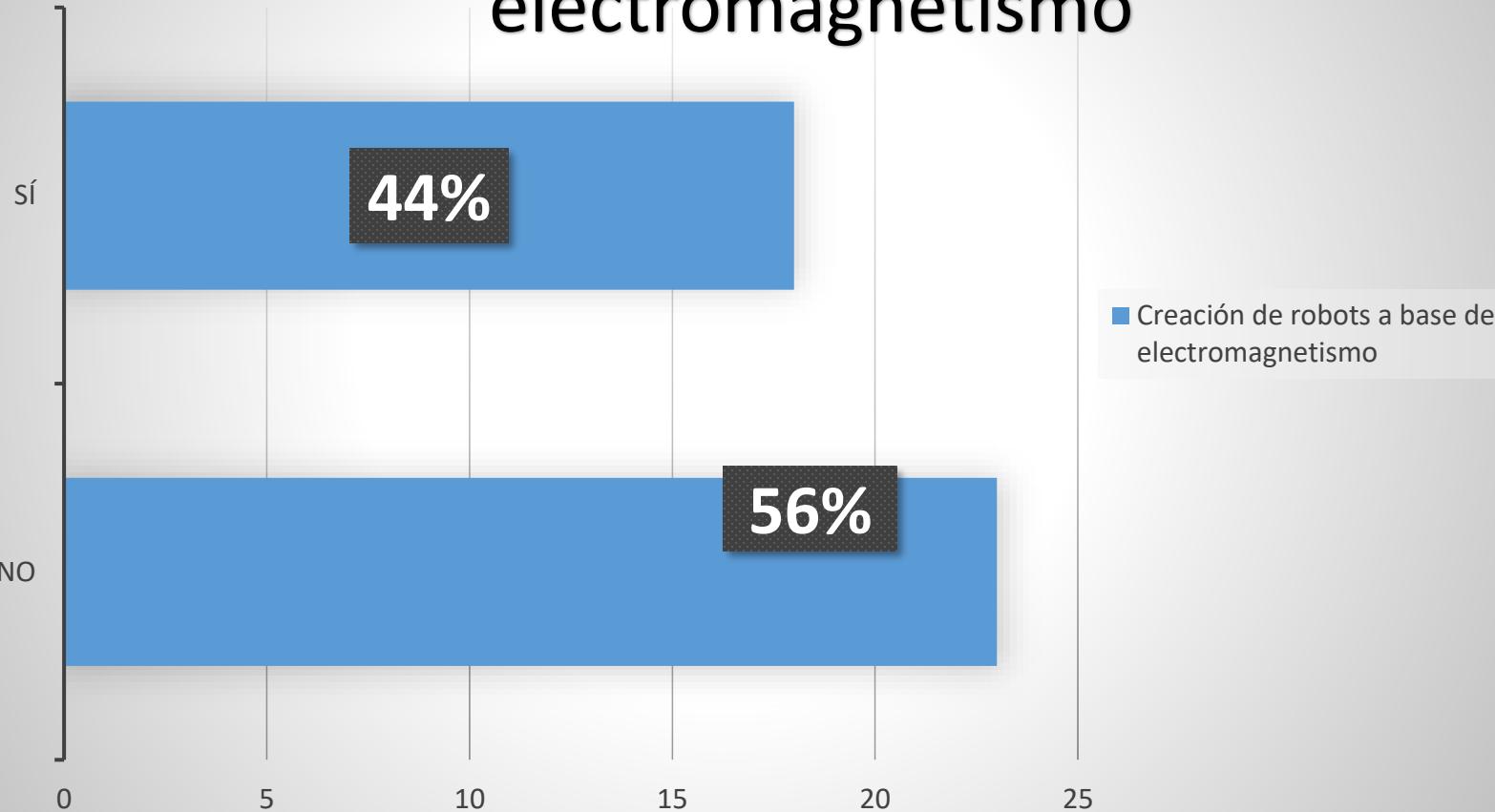
■ Promoción de actividades tecnológicas

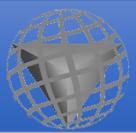
Sí





Creación de robots a base de electromagnetismo

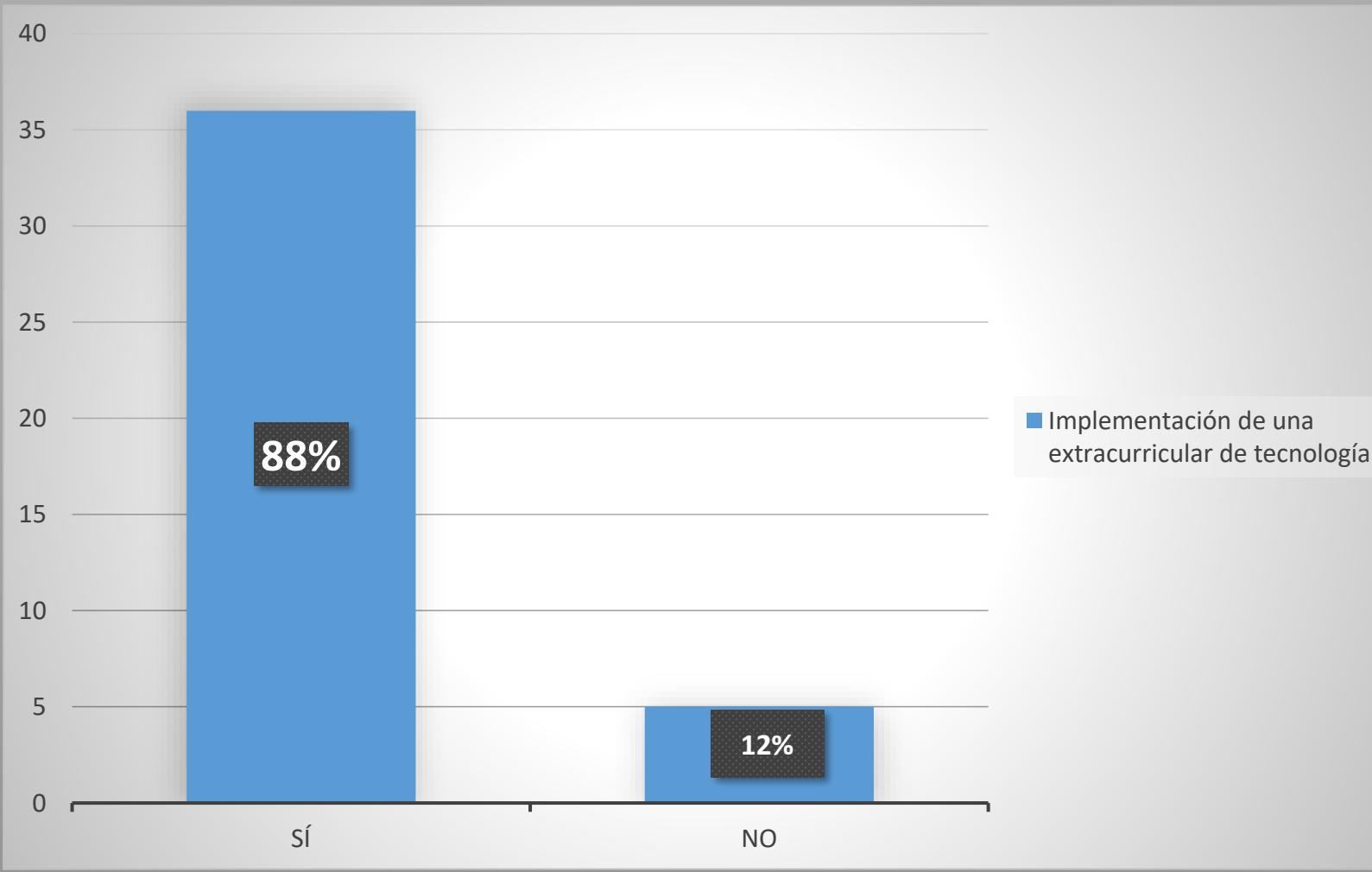


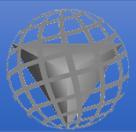


ANÁLISIS DE RESULTADOS

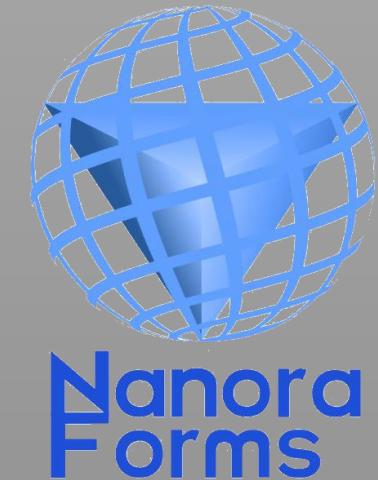
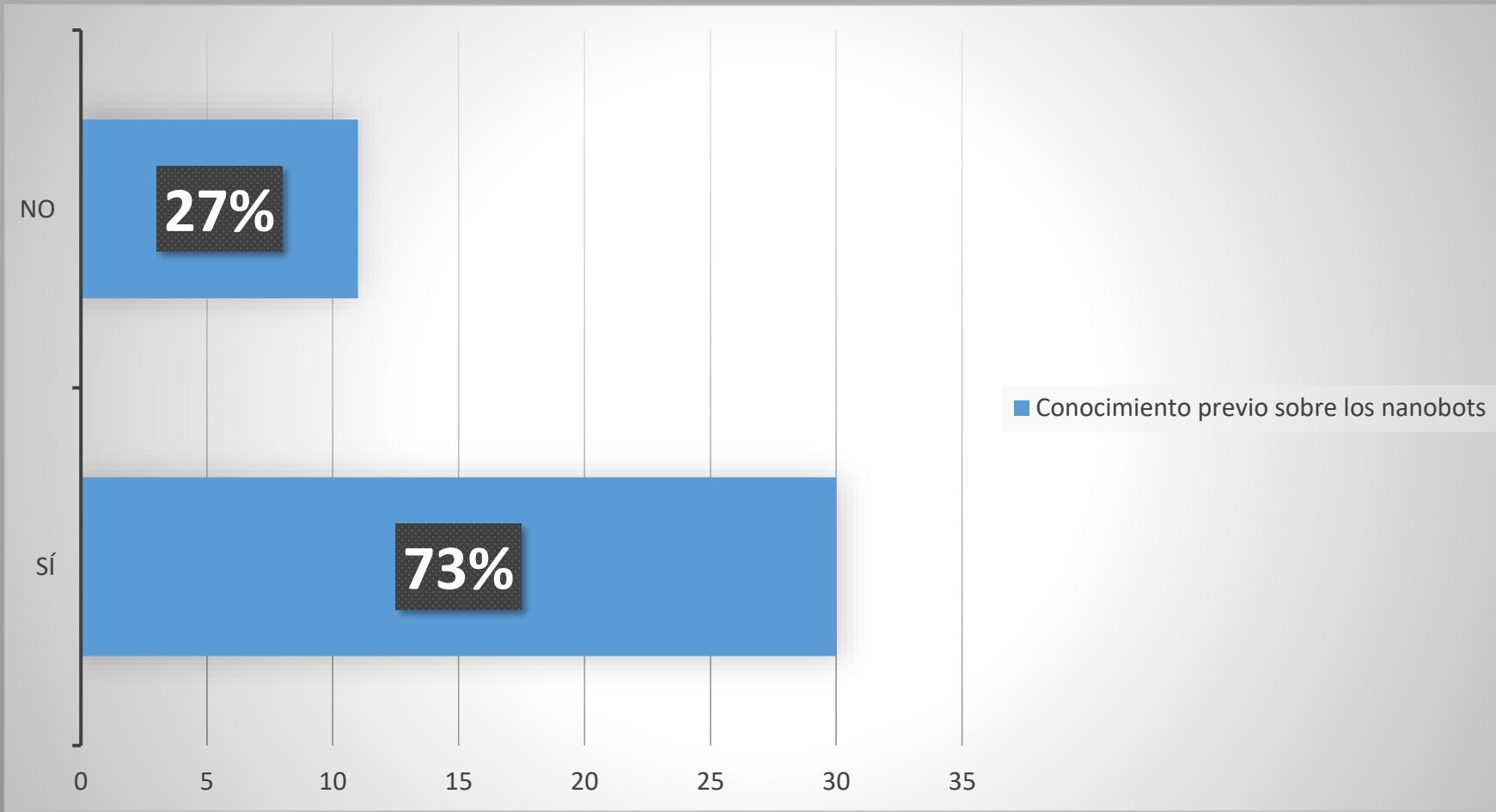


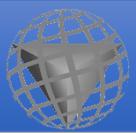
Implementación de una extracurricular de tecnología



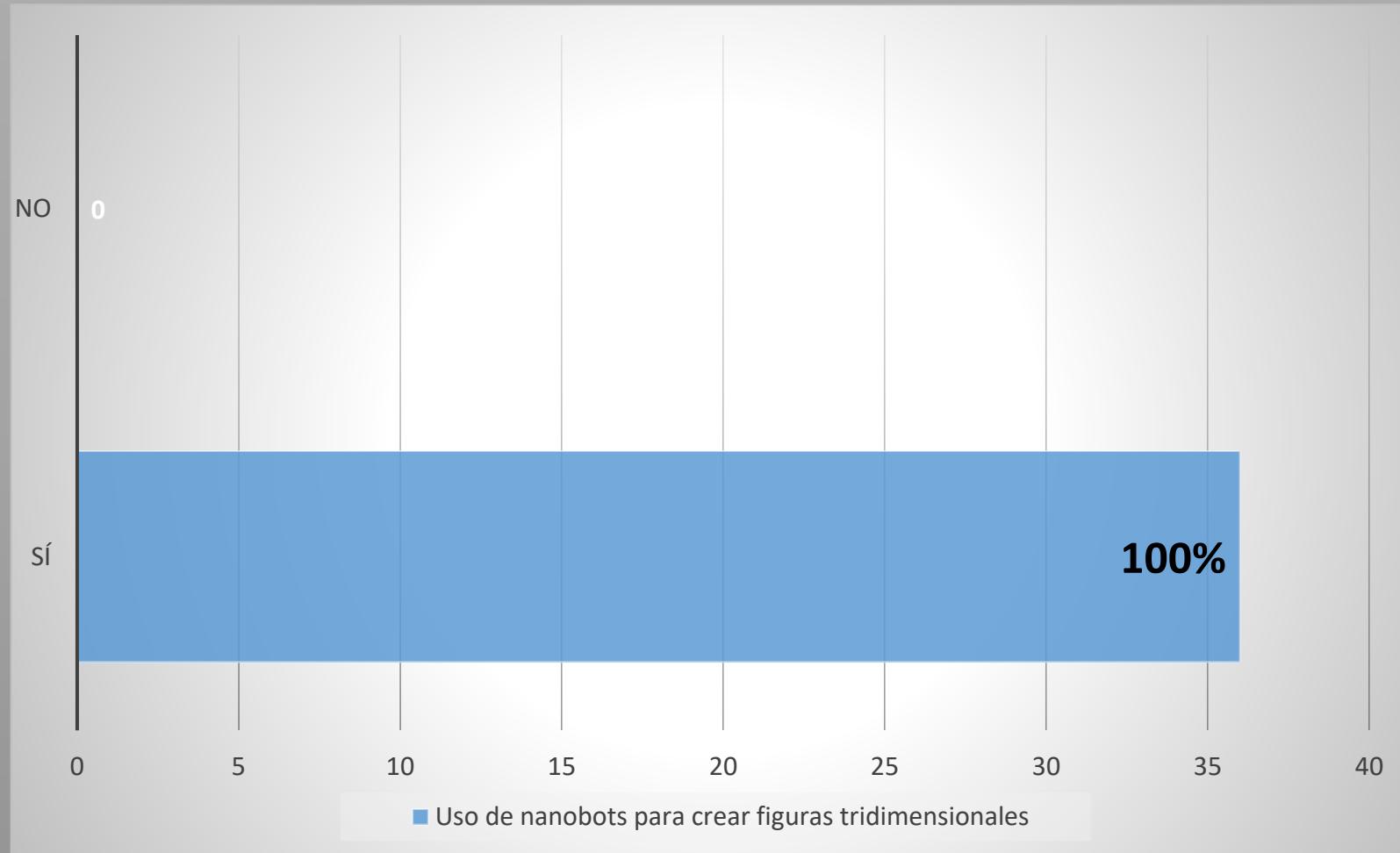


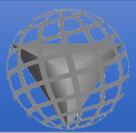
Conocimiento previo sobre Nanobots



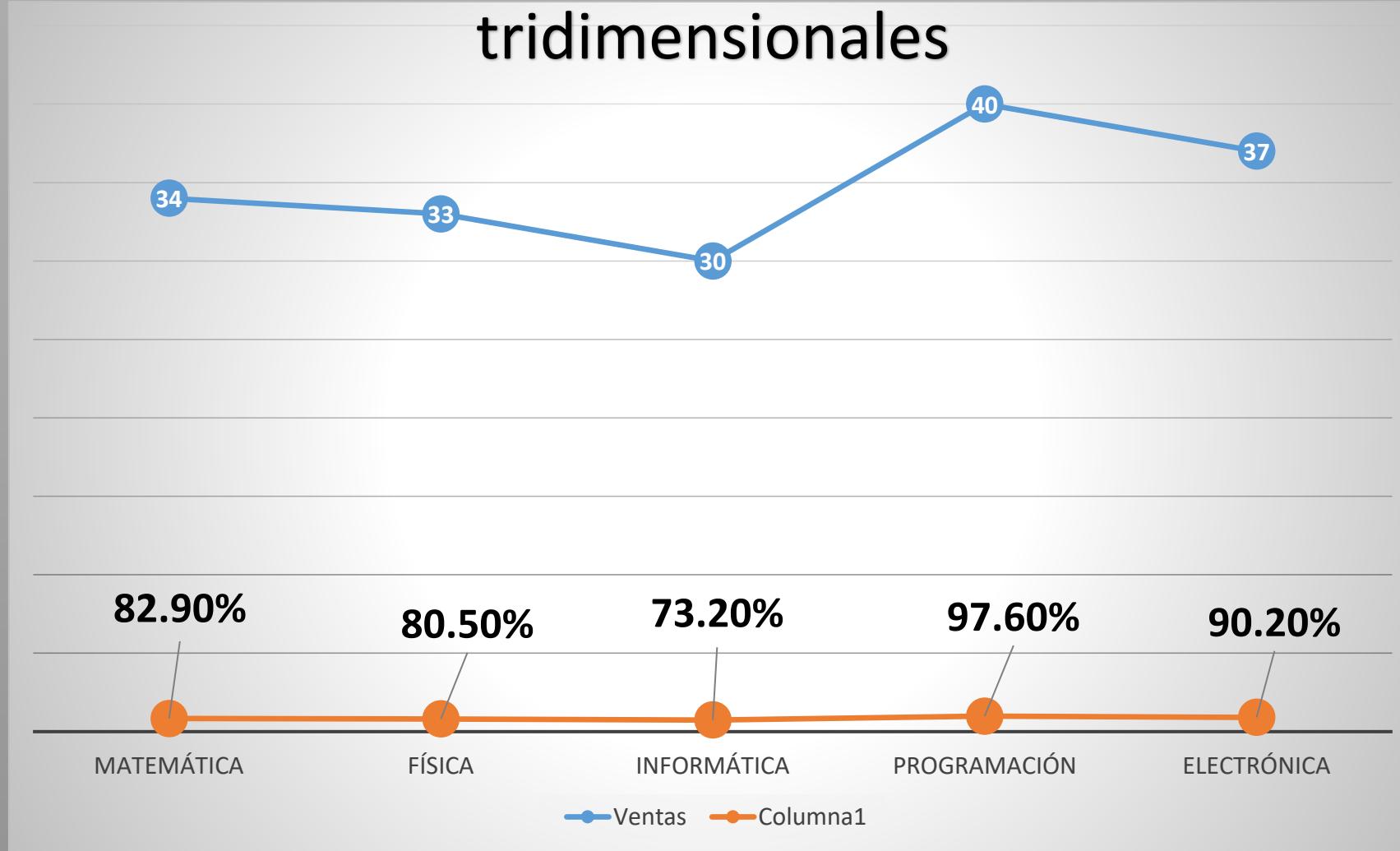


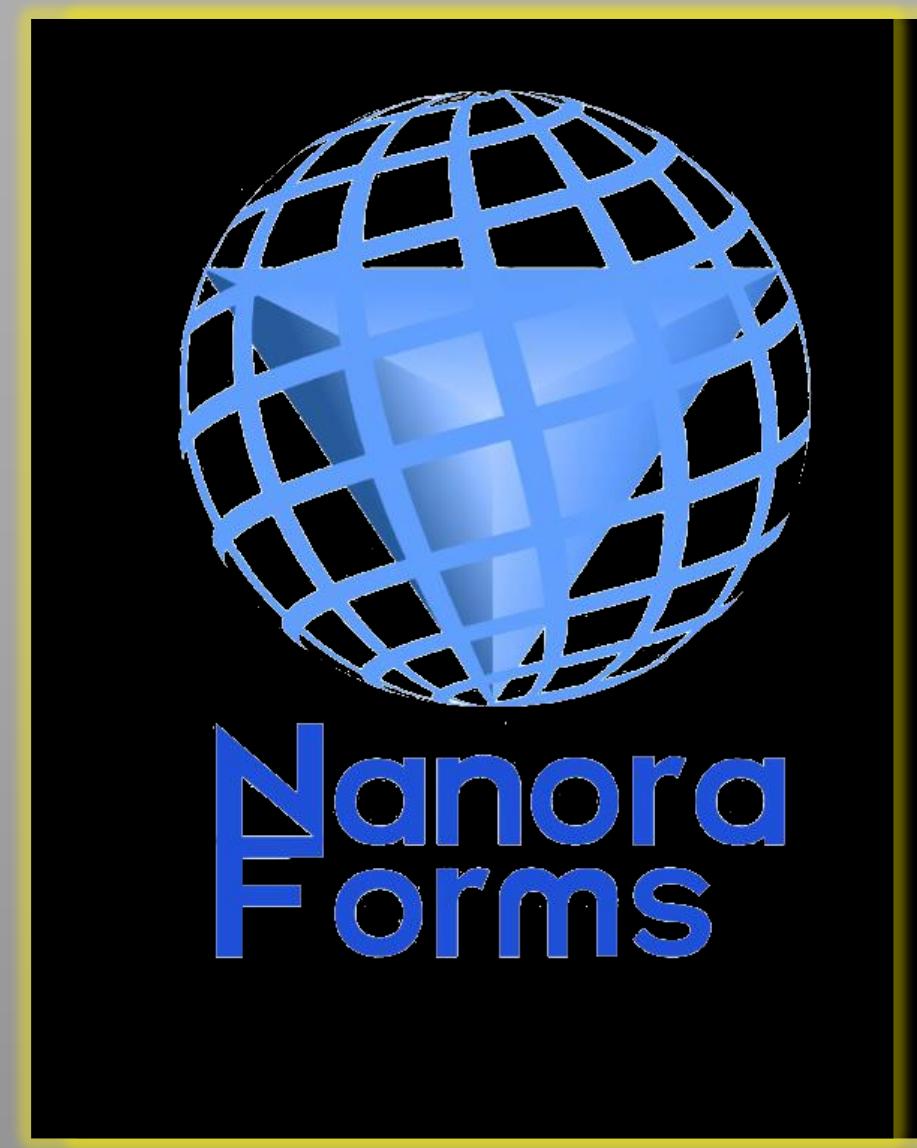
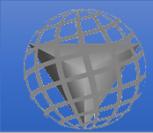
Uso de nanobots para crear figuras tridimensionales

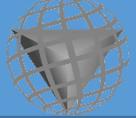




Ramas involucradas en la creación de figuras tridimensionales





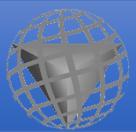


Conclusiones

Conclusiones

Al finalizar el desarrollo de este trabajo se observó que el diseño es funcional y sencillo, sin embargo, se observó que el diseño no cumple con las necesidades del cliente ya que el diseño no es óptimo para la realización de la función que se le pide. Se sugiere que en la realización de este proyecto en el área de robótica se utilicen materiales más resistentes y duraderos, así como una mejor programación para que el robot sea más eficiente y funcione de forma más precisa; por lo tanto, se sugiere regular en la fórmula funcional.



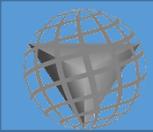


Recomendaciones

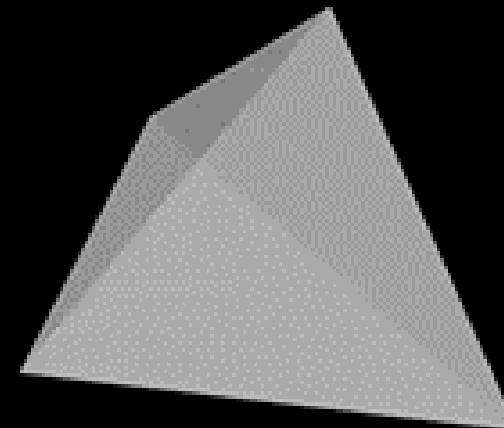


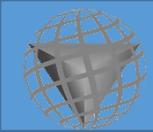
IMPLEMENTAR
MEJORAR
MEJORAR
COLABORAR
PROPORCIONAR



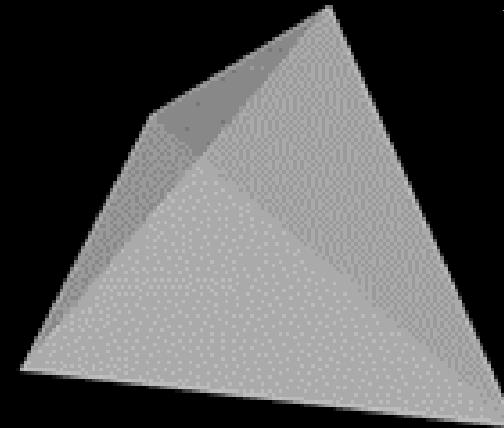


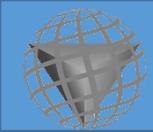
FORO





ENTREGA DE DOCUMENTOS





DESPEDIDA

