

## MECHANISMS

Ouvrir le fichier mechanisms avec swf opener après avoir décompressé le fichier téléchargé

### Introduction :

a. Give the definition of a **mechanism** :

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b. Give the definition of a **part** :

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c. Translate the words :

- Wheel :
- Lever :
- Wedge :
- Screw :

### 1. Forces and energy

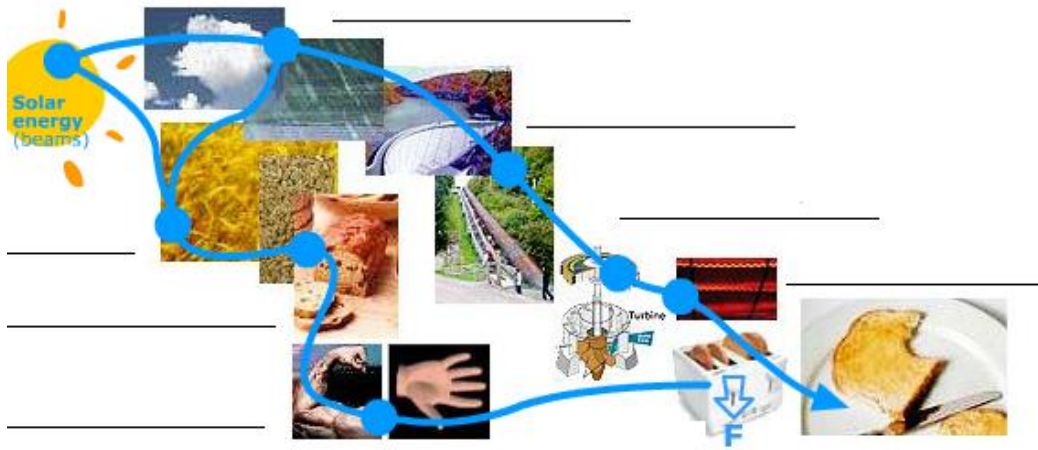
d. Give a definition of **energy** :

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e. Give four kinds of energy :

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f. Fill the blanks :



g. What are the five actions that forces product

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h. File the blanks :

\_\_\_\_\_ is the action that **twists** objects.

\_\_\_\_\_ is the action that **flexes** objects.

\_\_\_\_\_ is the action that **squeezes** objects.

\_\_\_\_\_ is the action that **stretches** objects.

\_\_\_\_\_ is the action that **cut**.

i. Give three **undesirable effects** of force of action :

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j. Give three examples of **desirable effect** :

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## 2. Motion

k. Give four **kind of motions** :

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l. What is the **trajectory** of a point on a screw:

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## 3. Basic mechanical function

m. Give the definition of a **mechanical function** :

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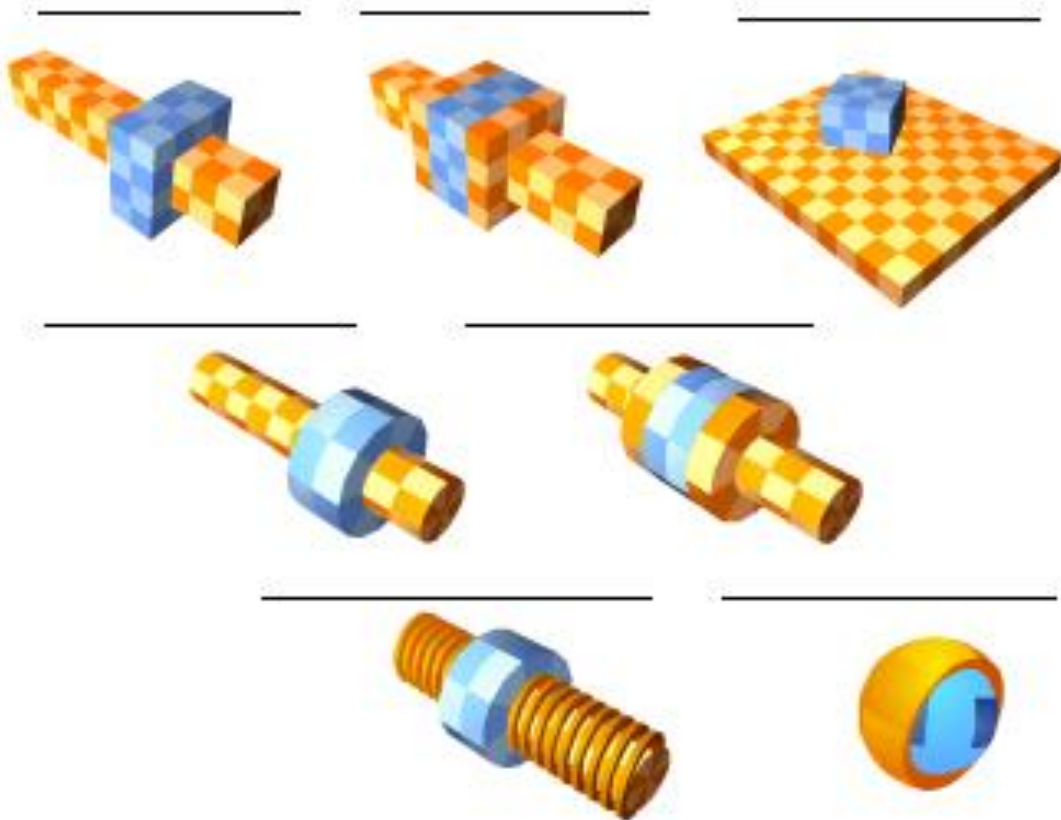
n. How is called the function of a part which joins pieces of an assembly together :

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o. How many degrees of freedom are existing in space:

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p. Fill the blanks :



q. What is the interest of the **lubrication**?

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r. What is the function of a **seal**?

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#### **4. Complex mechanical functions**

s. What are the three parts of a kinematical chain?

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t. Give a definition of a reversible mechanism.

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