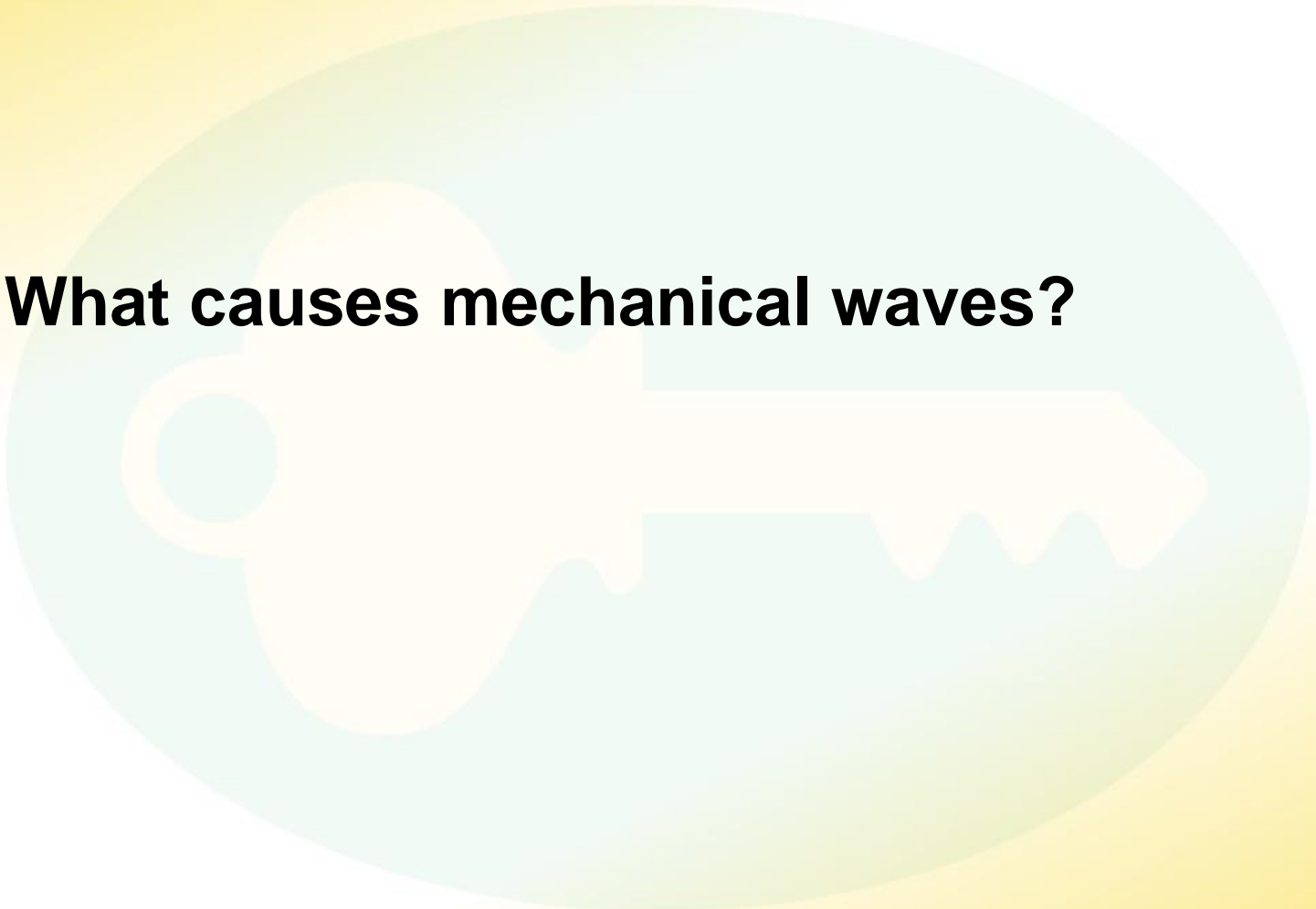


## What Are Mechanical Waves?



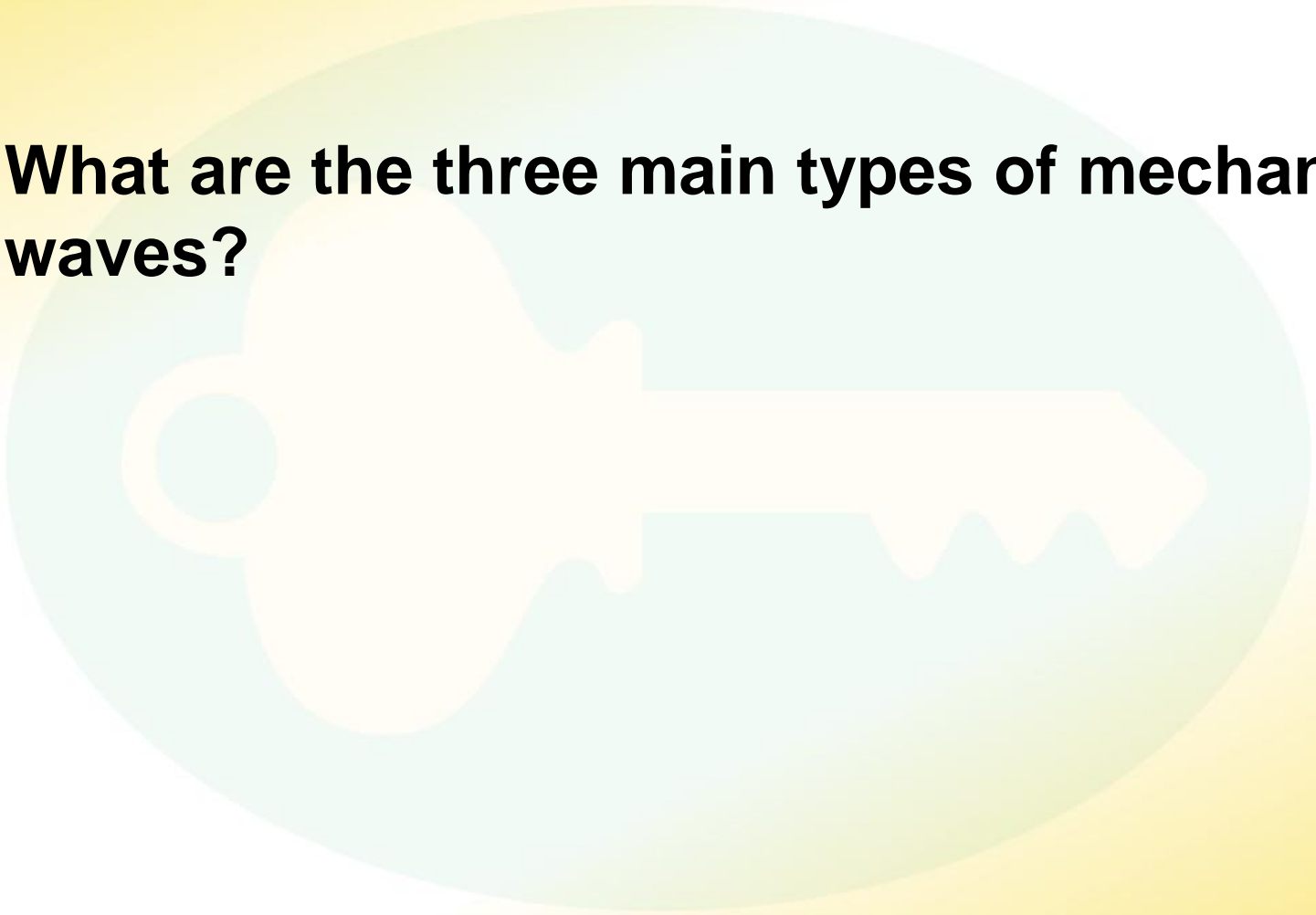
**What causes mechanical waves?**



## Types of Mechanical Waves



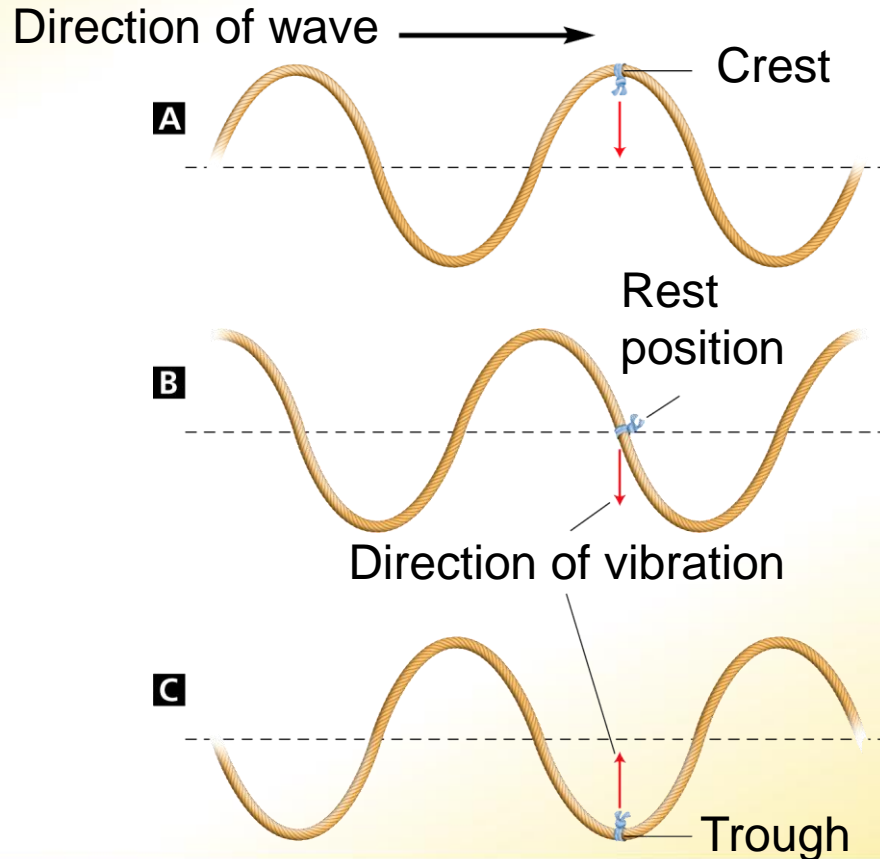
**What are the three main types of mechanical waves?**



# Types of Mechanical Waves

A transverse wave causes-

**DOK Question:** Construct a word explanation of the below pictures.



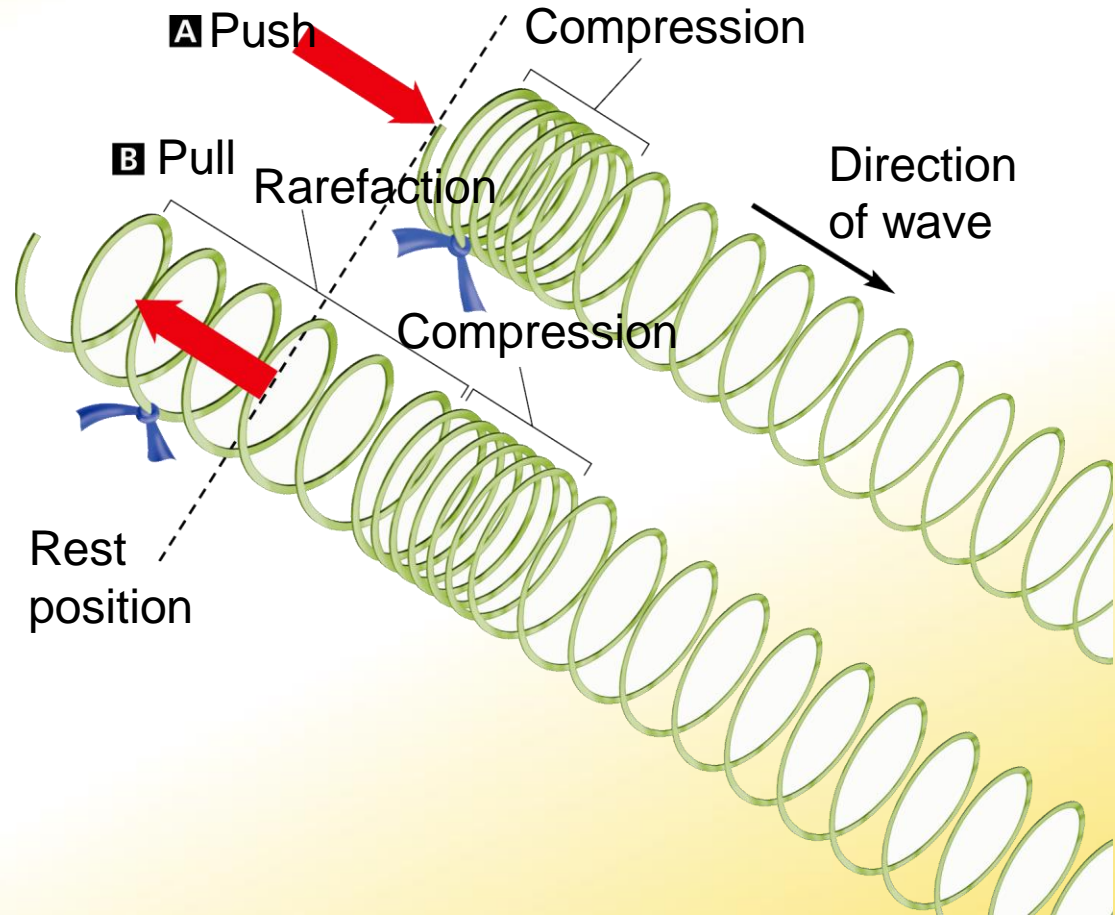
## Types of Mechanical Waves

A. A compression-

B. A rarefaction-

### DOK Question:

Construct a word explanation of the below pictures.



# Types of Mechanical Waves

## Surface Waves

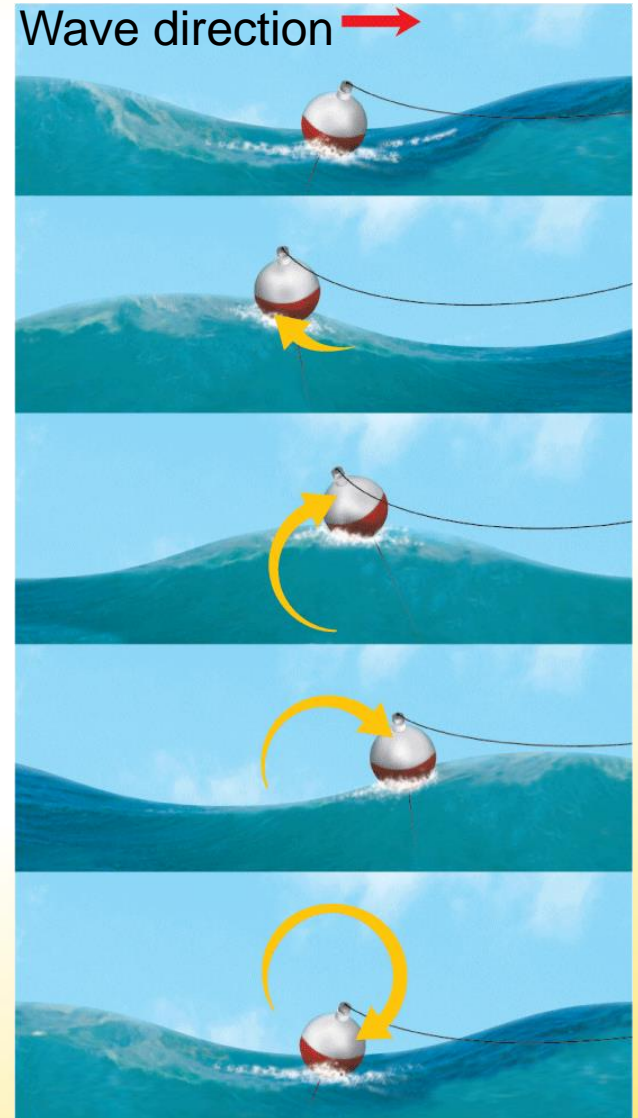
A surface wave is-

## Types of Mechanical Waves

As the ocean wave moves-

### DOK Question:

Construct a word explanation of the below pictures.



## Types of Mechanical Waves

The bobber helps to visualize the motion of the medium.

- When a crest-
- The bobber also is-
- The two motions-

## Assessment Questions

1. A mechanical wave carries energy from one place to another through the
  - a. physical transfer of matter.
  - b. interaction of electromagnetic fields.
  - c. phase changes of a medium.
  - d. vibration of a medium.



## Assessment Questions

1. A mechanical wave carries energy from one place to another through the
  - a. physical transfer of matter.
  - b. interaction of electromagnetic fields.
  - c. phase changes of a medium.
  - d. vibration of a medium.

ANS: D

## Assessment Questions

2. In what type of wave is the vibration of the medium parallel to the direction in which the wave travels?
- a. transverse wave
  - b. longitudinal wave
  - c. surface wave
  - d. rarefaction

## Assessment Questions

2. In what type of wave is the vibration of the medium parallel to the direction in which the wave travels?
- a. transverse wave
  - b. longitudinal wave
  - c. surface wave
  - d. rarefaction

ANS: B

## Assessment Questions

3. An example of a transverse wave is a(n)
- sound wave traveling through air.
  - ocean wave far from the shore.
  - ocean wave as it approaches the shore.
  - light wave traveling through space.

## Assessment Questions

3. An example of a transverse wave is a(n)
- a. sound wave traveling through air.
  - b. ocean wave far from the shore.
  - c. ocean wave as it approaches the shore.
  - d. light wave traveling through space.

ANS: A

## Assessment Questions

1. As a surface wave travels across water, molecules of water move in a circular pattern.

True

False

## Assessment Questions

1. As a surface wave travels across water, molecules of water move in a circular pattern.

True

False

ANS: T