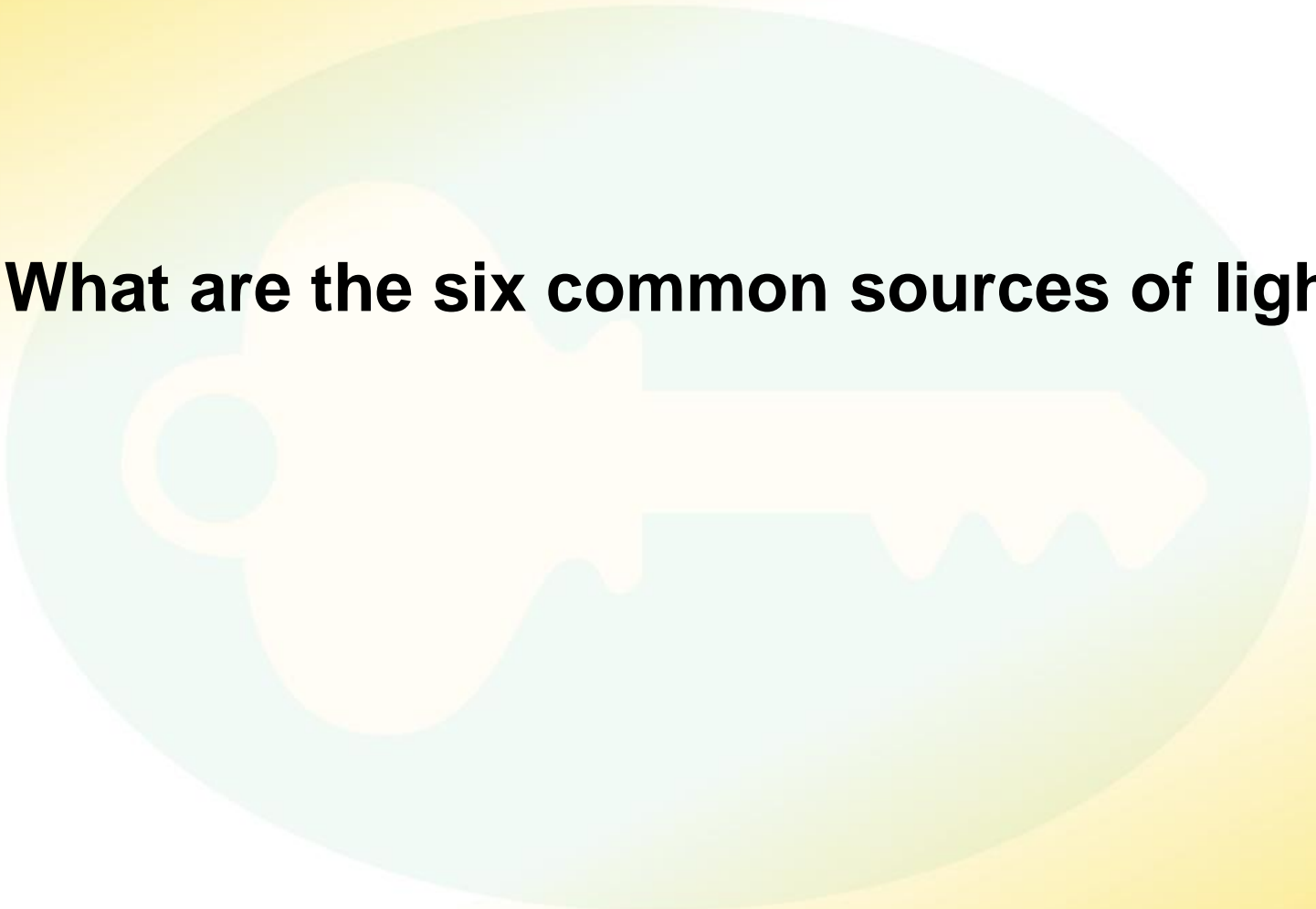




**What are the six common sources of light?**

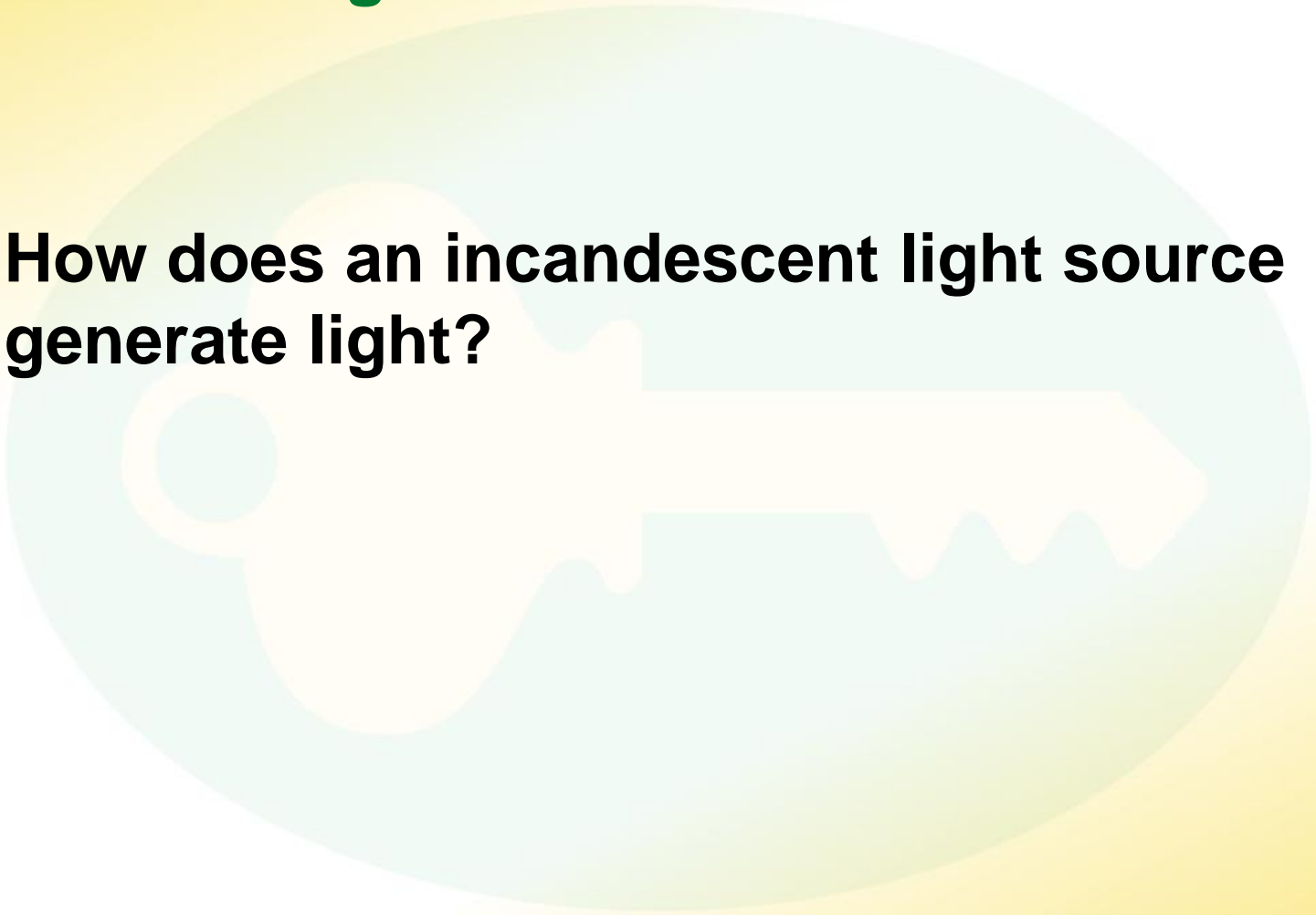


Objects that give off their own light -

## Incandescent Light



**How does an incandescent light source generate light?**



## Incandescent Light

The light produced when-

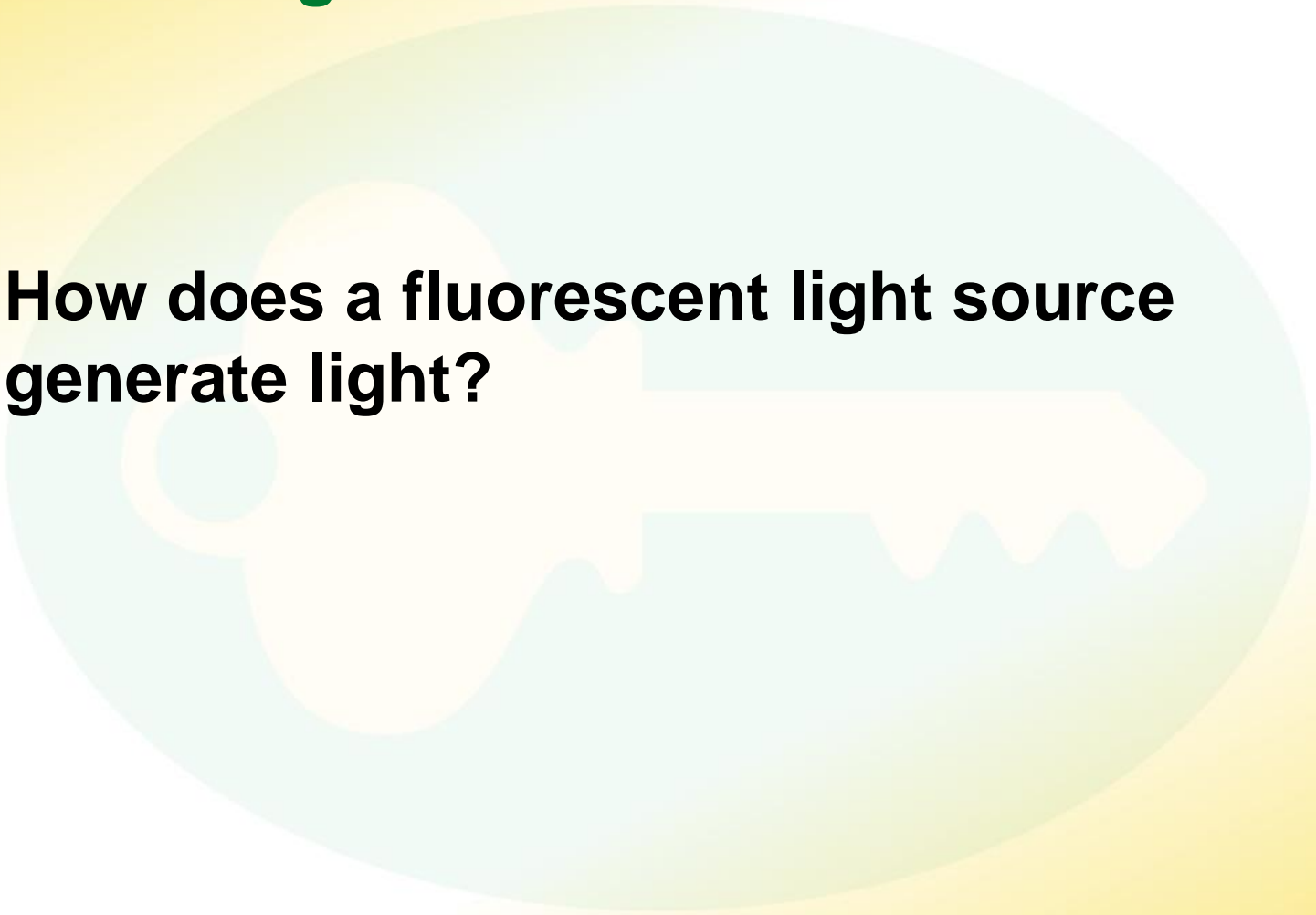
**DOK Question**

**Hypothesize why this is important.**

## Fluorescent Light



**How does a fluorescent light source generate light?**



## Fluorescent Light

In a process called **fluorescence**-

A **phosphor** is –

A fluorescent bulb is-

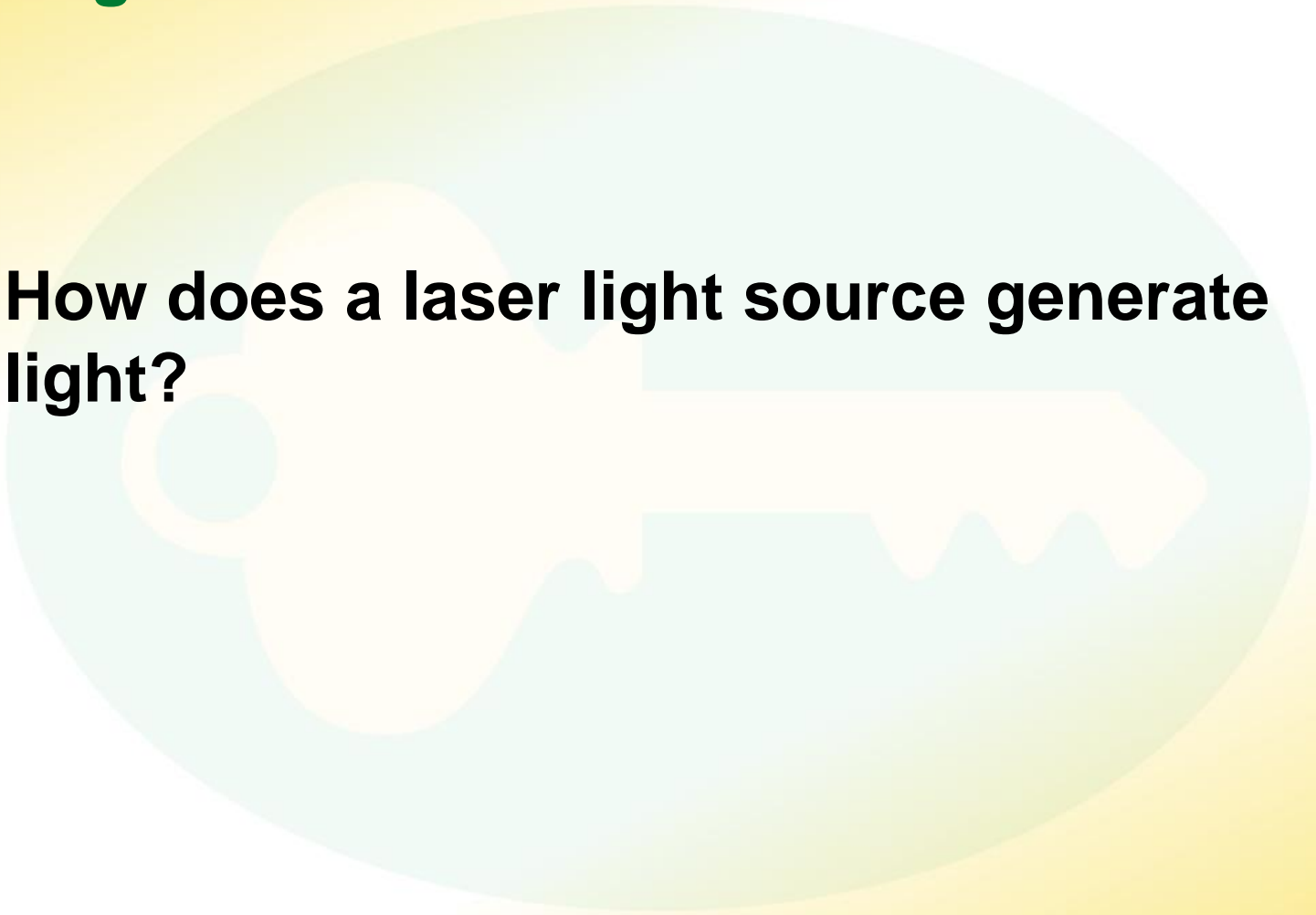
**DOK Question**

**Hypothesize why this is important.**

# Laser Light



**How does a laser light source generate light?**



## Laser Light

Light in –

A **laser** is –

A beam of coherent light –

The energy –

**DOK Question**

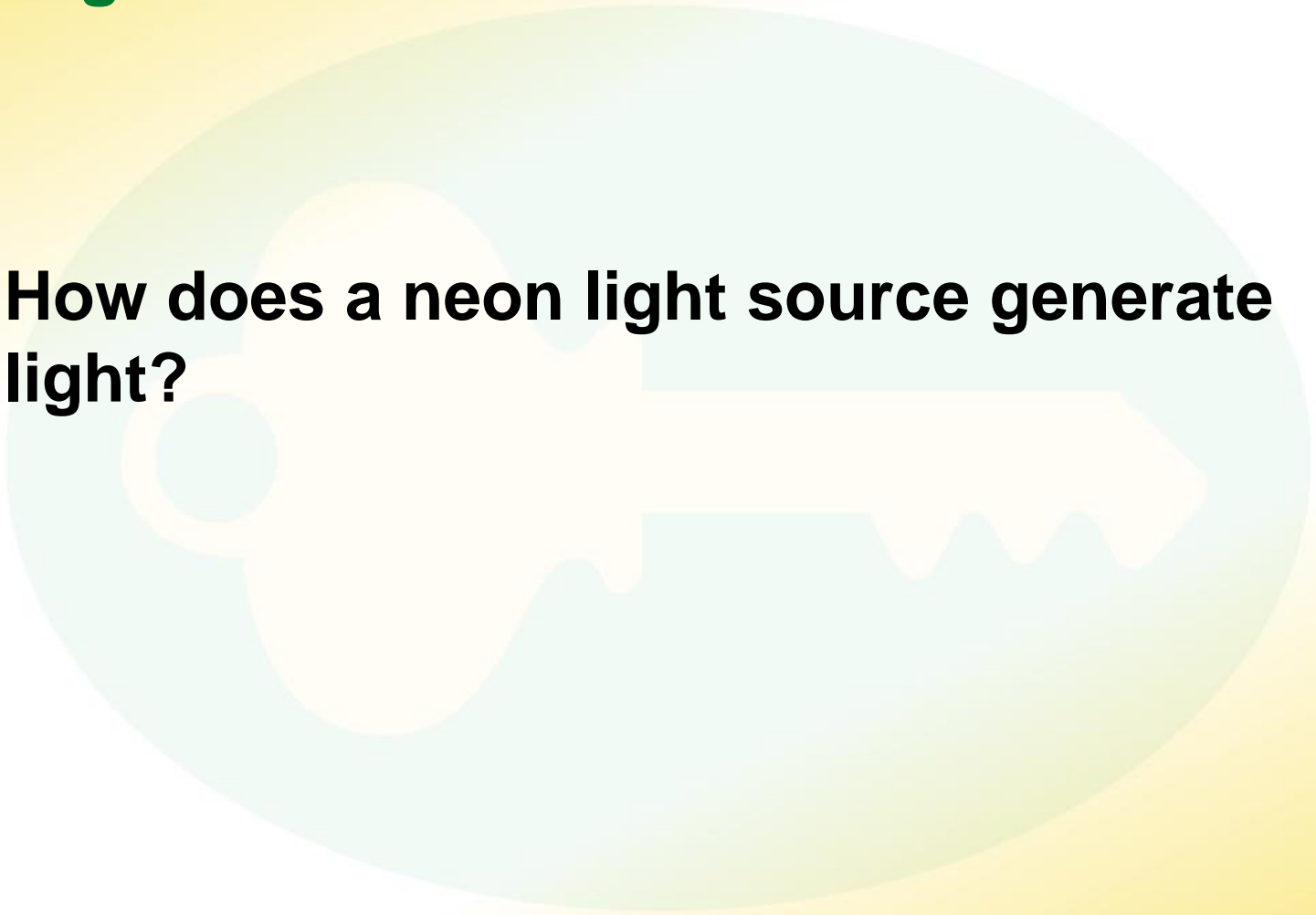
**Hypothesize why this is important.**



## Neon Light



**How does a neon light source generate light?**



## Neon Light

Many lights called neon lights -

- Helium -
- A mixture of argon gas and mercury vapor produces-
- Krypton -
- Pure neon –

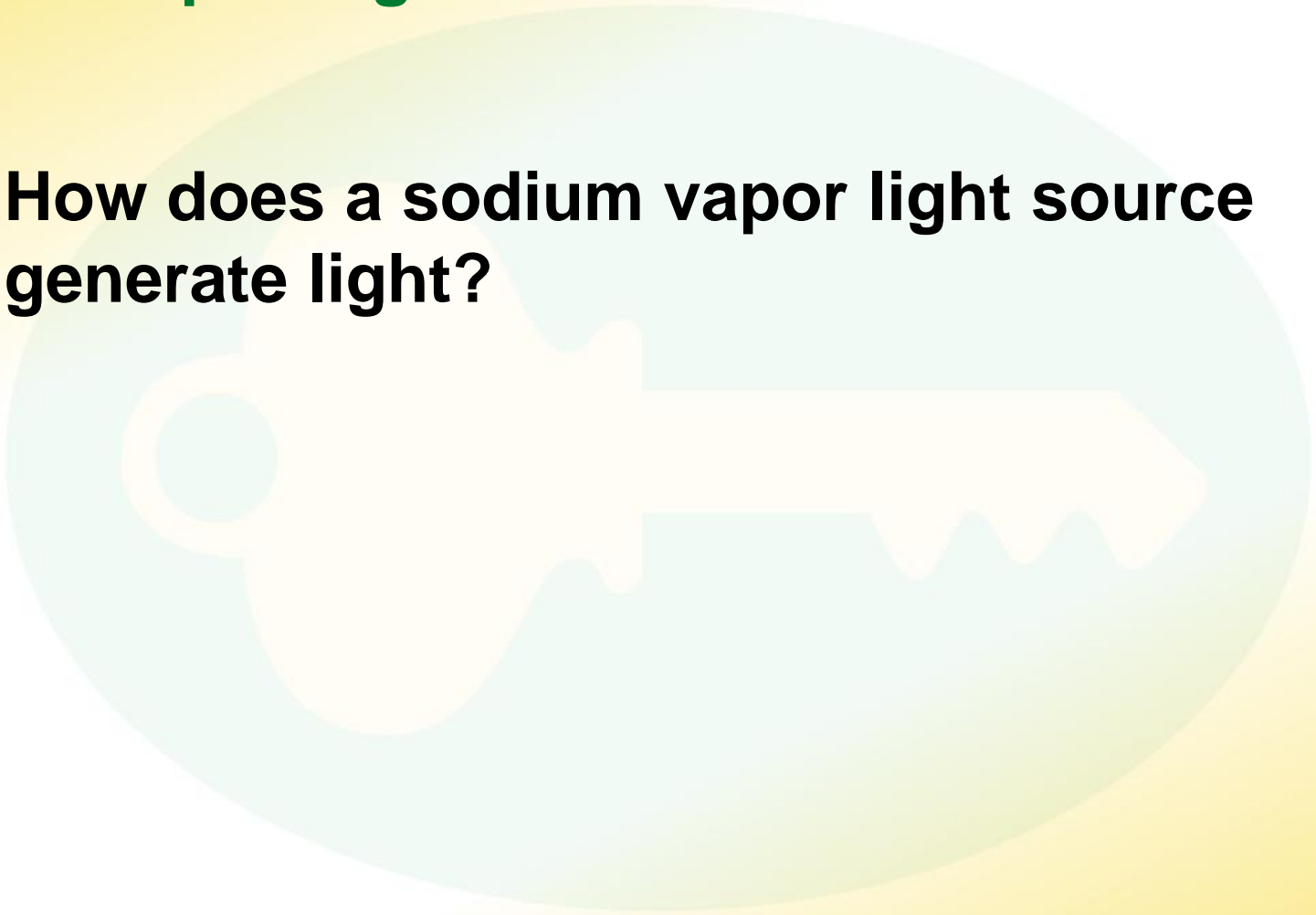
### DOK Question

**Hypothesize why this is important.**

## Sodium-Vapor Light



**How does a sodium vapor light source generate light?**



## Sodium-Vapor Light

Sodium-vapor lights –

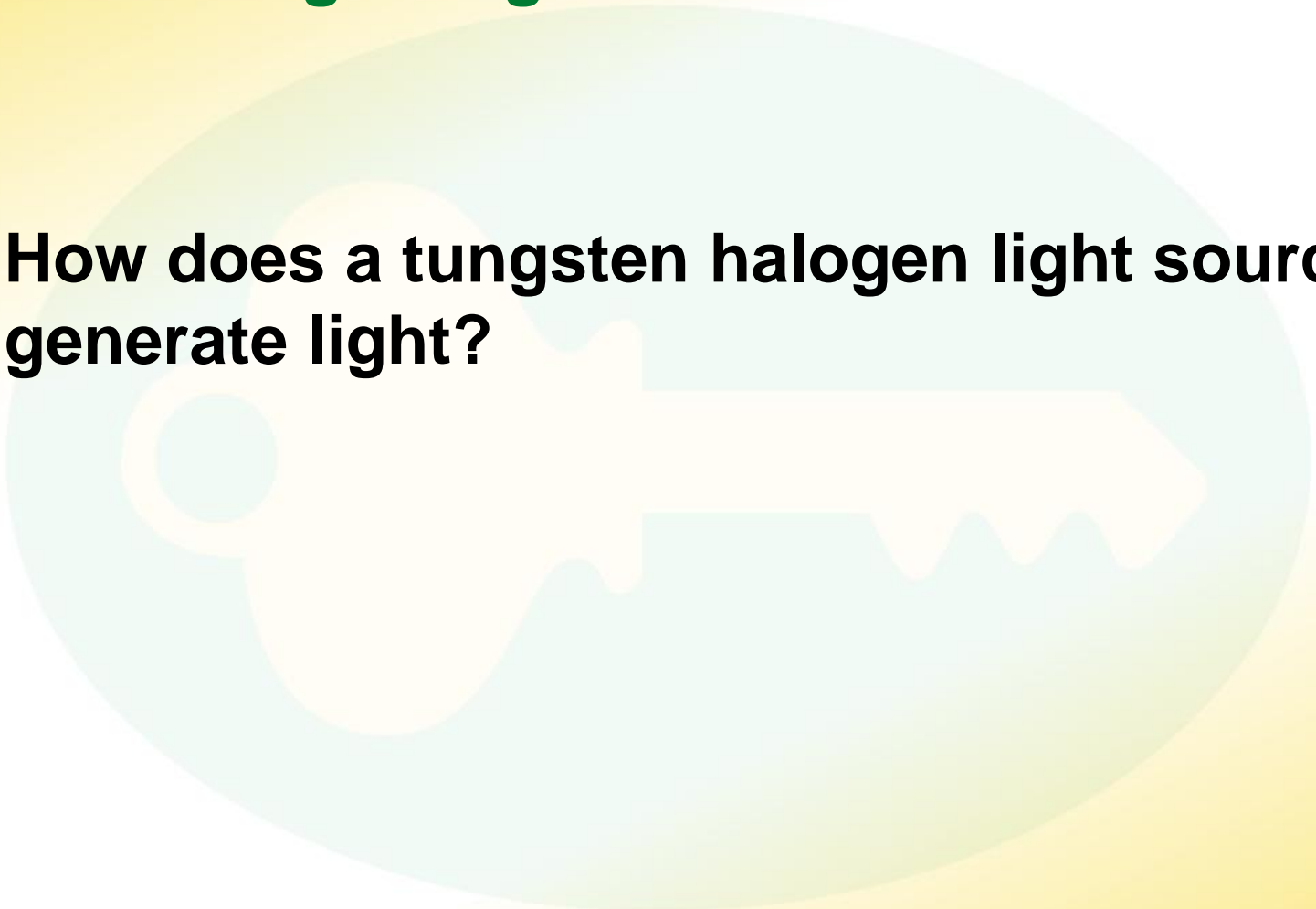
**DOK Question**

**Hypothesize why this is important.**

## Tungsten-Halogen Light



**How does a tungsten halogen light source generate light?**



## Tungsten-Halogen Light

Tungsten-halogen light is-

**DOK Question**

**Hypothesize why this is important.**

## Assessment Questions

1. The light produced when an object becomes hot enough to glow is
  - a. incandescent.
  - b. fluorescent.
  - c. phosphorescent.
  - d. coherent.

ANS: A

## Assessment Questions

2. The most efficient source of lighting rooms of a building is
- incandescent light.
  - flourescent light.
  - sodium-vapor light.
  - tungsten-halogen light.

ANS: B



## Assessment Questions

1. Neon lights emit coherent light, in which the waves all have the same wavelength and wave crests and troughs are lined up.

True

False

ANS: F, Lasers