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# Smart LED lamp

**Innovative design**

- Safety

**Economy**

Costs 3000 Dhs

**Researchs**

- In the past they didn't have a smart lamps.
- In the present the lamps are easy to use.
- In the future, the laser will replace the lamps.

**Appearance**

- Size: Medium
- Shape: Attractive because it is made of many materials - many materials
- Texture: Soft
- Style: Modern
- Materials: Plastic, battery, wire
- Colour: grey

**Evaluation**

- Saving power.
- clap switch control system.

**Electronics**

- clap switch control system.

**Generation of ideas**

- Mind map to create a 3D smart LED lamp.
- Start up with all important assemble parts.

**Function**

- Automated light
- The lamp lights up the place.

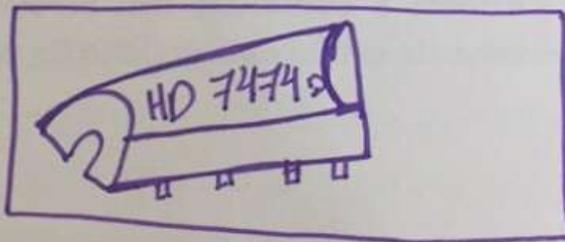
**Aim**

- 3D model
- clap switch circuit

H.W!

- \* 555 Timer.
- \* LEDs.
- \* materials.
- \* Architecture.
- \* Smart lamps.
- \* size and scale
- \* Aesthetice

Example one :-



\*The electronic components is the IC 7474. this IC chip works as a switch with 7 byte of memory to remember the status when it was last triggered.

up with advancing  
at smart LED lamp  
influenced by iconic  
el and 3D print the  
his clap-controlled  
you will assemble  
g smart LED lamp  
ious CDI terms.

and off by clapping  
ecture

Keyword	Meaning
Fusion 360	is a cloud based CAD/CAE tool that combines organic shapes modeling
smart lamp	lighting technology designed for energy efficiency
assemble	gather together in one place for a common purpose
analogue	relating to or using signals or information represented by a continuously variable physical quantity
555 timer	is an integrated circuit chip used in a variety of time
PCB board	A Printed circuit board mechanically supports and
iconic	Relating to or of the nature of icon
architecture	The art or practice of designing and constructing buildings electrically connects

Section

1 Complete the sentences with the words from the text on Coursebook page 204.

**Facts about language!**

There are about 6,500 languages<sup>(1)</sup> in the world.

Over 2000 languages are known to be endangered<sup>(2)</sup>. This means that they may not exist in the future.

More than 200 languages are now extinct<sup>(3)</sup>. There are no speakers left. Examples of dominant<sup>(4)</sup> or major<sup>(5)</sup> languages are English, Chinese and Arabic.

They are spoken by millions of people around the world.

Examples of rarely<sup>(6)</sup> languages are Nivkh and Toratan.

Regions<sup>(7)</sup> of the world where languages are at risk include Australia and Eastern Siberia.

- 1 disappear
- 2 differences between people
- 3 at risk
- 4 geographical areas
- 5 controlling
- 6 save

3 Complete the sentences

- 1 Only \_\_\_\_\_
- 2 \_\_\_\_\_
- 3 \_\_\_\_\_
- 4 \_\_\_\_\_
- 5 \_\_\_\_\_
- 6 \_\_\_\_\_

4 Write get words in

