



Video Tutorial

# Night Light

SAIT is a global leader in applied education and offers 100+ career programs, 1,300+ continuing education courses for career enhancement, and corporate training courses to more than 200 companies annually.

SAIT students study within nine academic schools — Business, Construction, MacPhail School of Energy, Health and Public Safety, Hospitality and Tourism, Information and Communications Technologies, Manufacturing and Automation, Transportation, and the School for Advanced Digital Technology . Hands-on learning in unique labs and classrooms, solution-focused research and enterprising collaborations with industry partners ensure SAIT students are career-ready when they graduate.



## What's Included

- Wood Kit
- Battery
- 1 Battery Connector
- 1 Switch
- 1 Light Socket
- 1 Lightbulb
- Foam Tape
- Electrical Connector
- Glue
- Wire Strippers

## What You Will Need

- Screwdriver
- Hammer (optional)

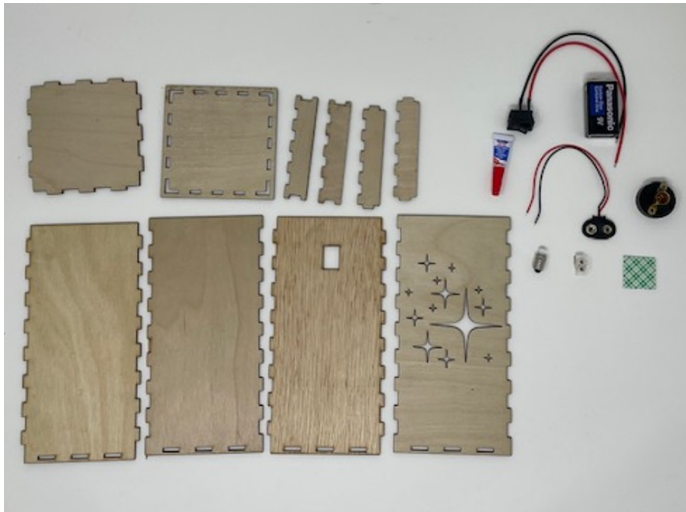
Tag us in your projects! **#ABisSkilled**

# Night Light

*Please Note: Great care has been taken to pre-drill and cut components to size. Slight variations in material size, density and hole location are inevitable when dealing with wood. The user may be required to adjust and make material fit.*

## READ FIRST

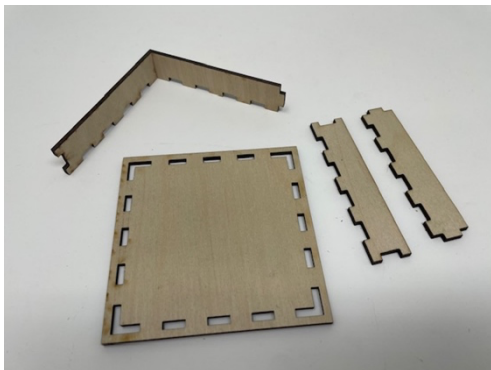
- Not included in this kit but is required is a Philips (Star) screwdriver #1 and a pair of wire strippers
- Do not connect the LED light directly to the 9V battery – **the light will burn out**
- The battery is 9V and the LED light is 3V, a 3V light is used in the circuit due to the voltage drop when the current goes through the light socket, switch, and wire connector.
- CA glue is included in this kit but hot glue gun may also be used. Read all instructions prior to starting this project



### Step 1: Material

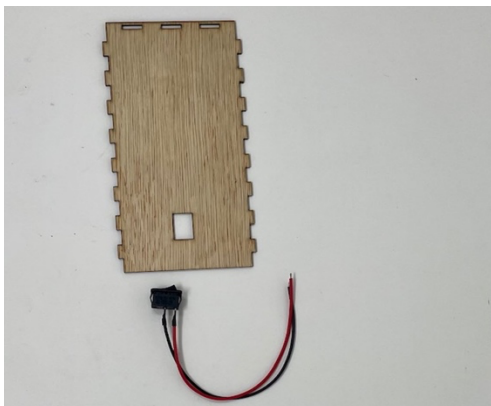
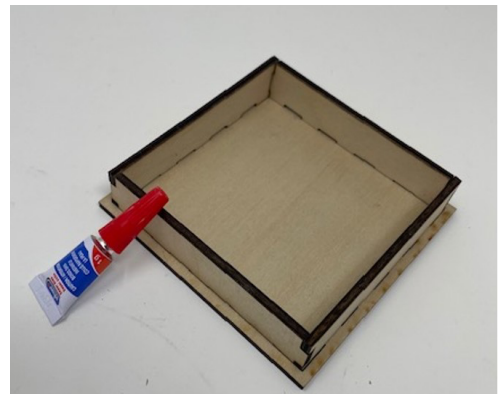
4 Wood Sides  
1 Top  
1 Base  
4 Small Sides  
1 9V Battery  
1 Battery Connector

1 Switch  
1 Light Socket  
1 LED Light  
Foam Tape  
Electrical Connector  
1 Tube of CA Glue



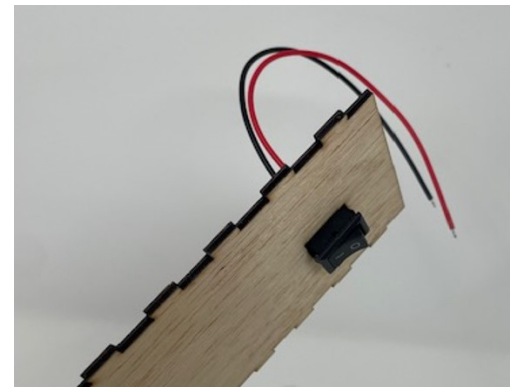
### Step 2: The Base

Assemble the four sides and insert them into the base and secure them in place with a small amount of glue

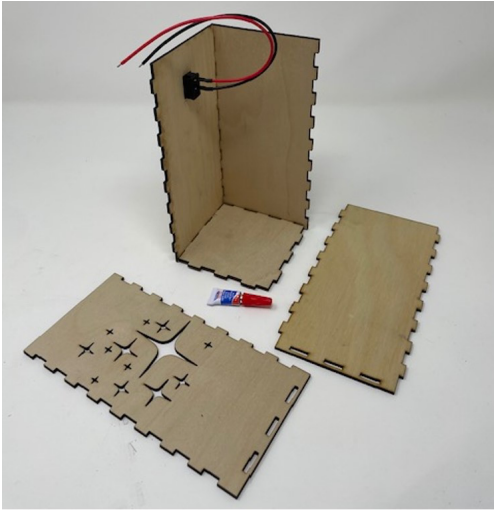


### Step 3: Installing Switch

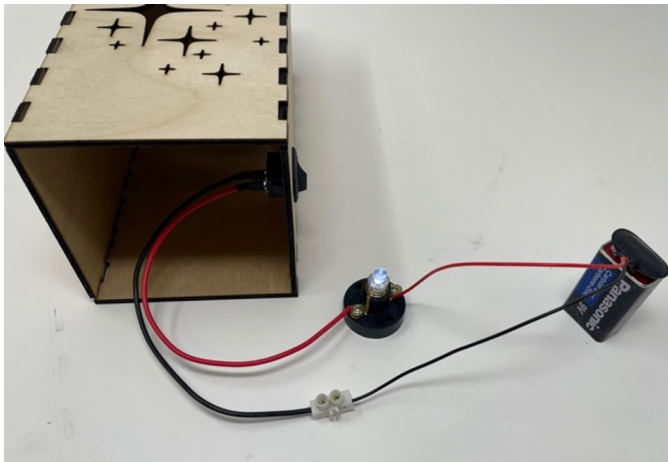
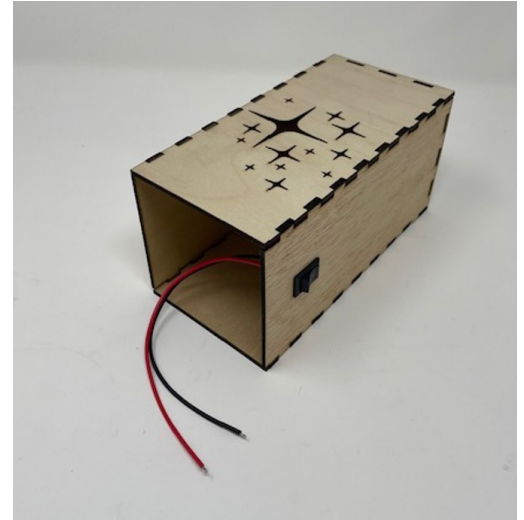
Locate the side with the square opening, put the wire through the opening and push the switch in place to secure it



# Night Light Cont'd



**Step 4: Night Light Assembly**  
Identify the top piece (small square) the box is built on a tongue and groove system. Insert the four sides into the top piece. Secure with glue

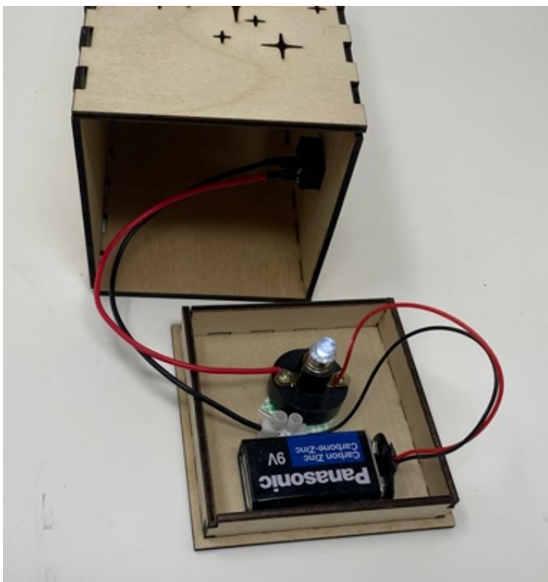


## Step 5: Wiring the Light

- \*LED lights have polarity and must be wired properly to work
- \*Do all connections and double check prior to connecting battery to the circuit

Like in the photo, the positive wire (red) from the battery connector is connected to the positive (+) side of the light socket. The negative (-) side of the socket is connected to the switch via the red wire.

The black side of the switch is joined to the battery via the connector to complete the circuit. Using a #1 philips screwdriver



## Step 6: Final Assembly

Secure electrical components in the base using 2-sided foam tape, lower night light onto base

