

# CURRICULUM WEB ECE 211-091

By: DESTINY POWE

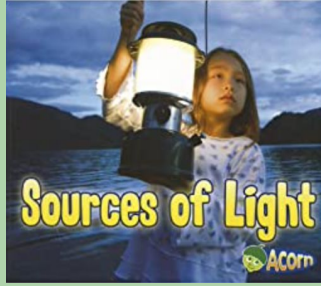
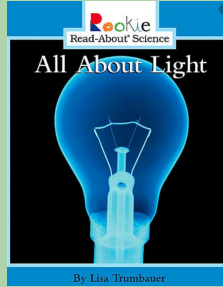


## Unit 6: Light

This curriculum web describes a hands-on unit for a Pre-Kindergarten class. Looking into the theme of “Light”. By using Science, and Visual arts and movement to help the children understand the unit better. the activities in this Curriculum Web support the development of young children across the multiple domains addressed in the New York State Pre-K Common Core Learning Standards (CCLS)



# What Kinds of Light Are Around Us?

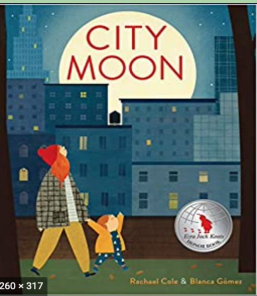


## Books:

All About Light: By Lisa Trumbauer

City Moon: By Rachel Cole

Sources Of Light: By Daniel Nunn

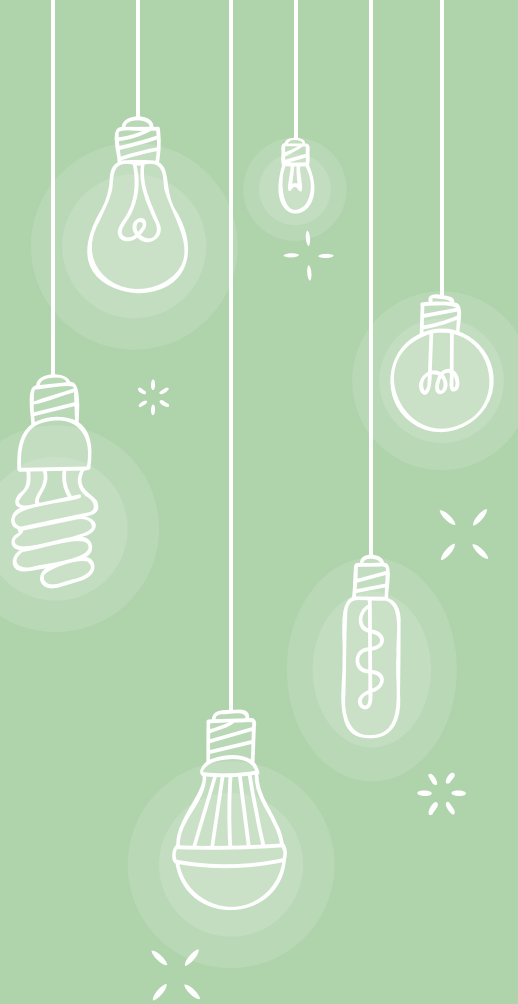


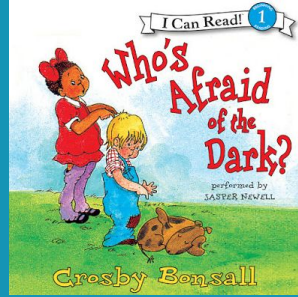
## Activities:

**Flashlight parts:** These toys are fun to teach kids about the various components of a flashlight. They can also be used to teach kids about how to assemble them.

**HOLES:** These activities can be done in various ways: with various containers such as colanders, sieves, and sippy cup lids.

**PRISM:** These objects are designed to bend light and create rainbows. Use these simple tools to position the prisms correctly.





# WHAT IS DARKNESS?



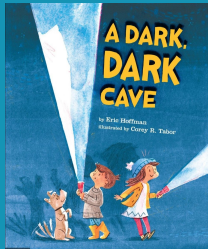
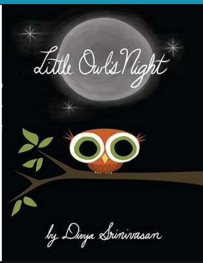
Books:

**Who's Afraid of the dark?** By: Crosby Bonsall

**Little Owl's Night**  
By: Divya Srinivasan



**A Dark, Dark Cave**  
By: Eric Hoffman

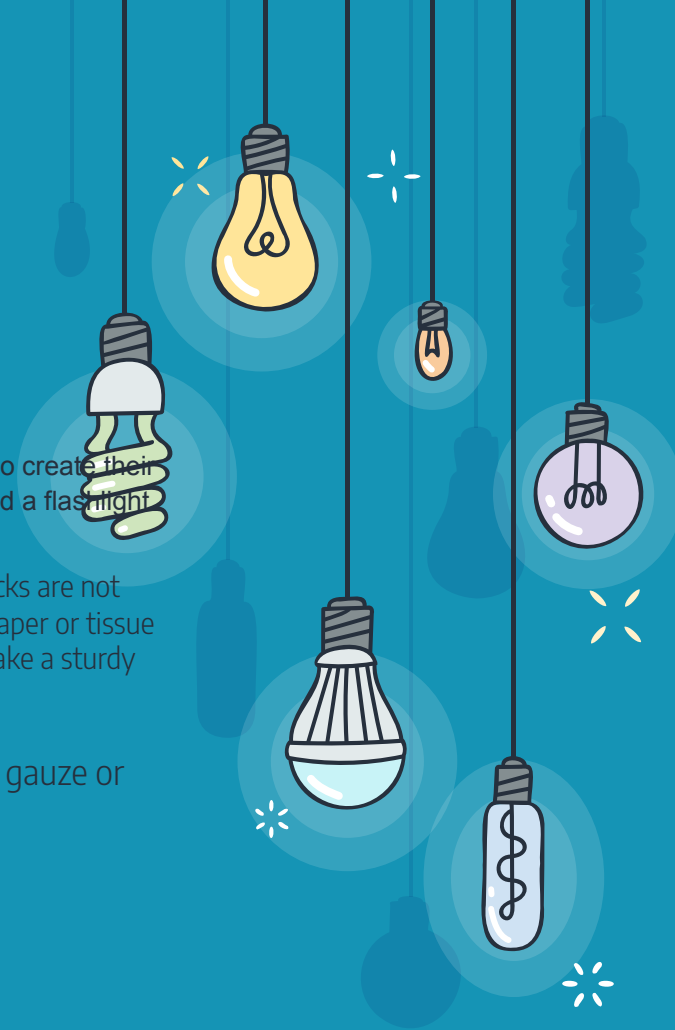


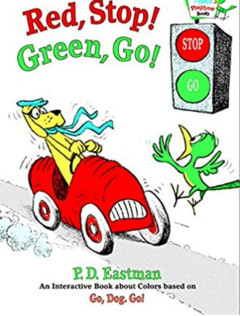
Activities:

**Shadow Letters:** invite children to create their own shadow letters using blocks and a flashlight

**Window Blocks:** If window blocks are not available, cut shapes from colored paper or tissue paper and glue them together to make a sturdy frame.

**Tent:** Create a tent using light gauze or similar see-through fabric.





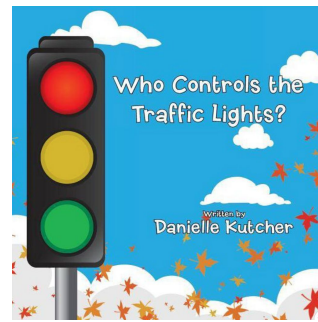
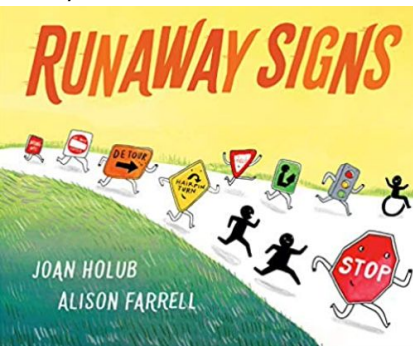
## How Does Light Help Us?

Books:

Red, Stop, Green, Go  
By: P.D. Eastman

Runway Signs  
By: Joan Holub

Who Controls The Traffic Lights  
By: Danielle Kutcher

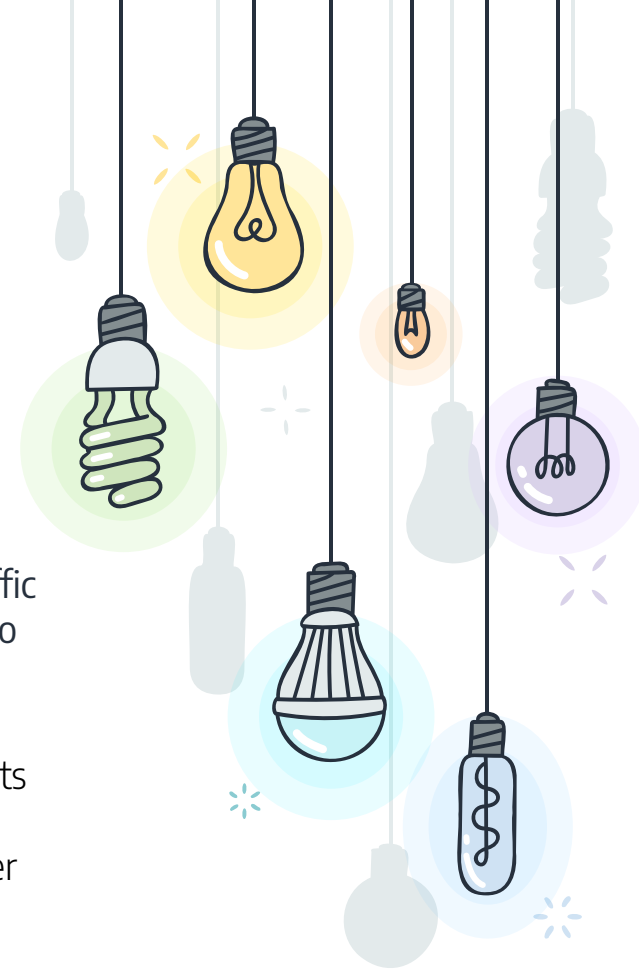


Activities:

SKYLINE: Create additional buildings with the lights in the picture to add to the skyline.

Traffic Lights: Add small traffic lights and traffic signal toys (or make your own) for children to use as they build.

Luminaries: These simple but elegant projects will encourage children to use permanent markers to decorate empty milk jugs and other plastic containers with small light display.



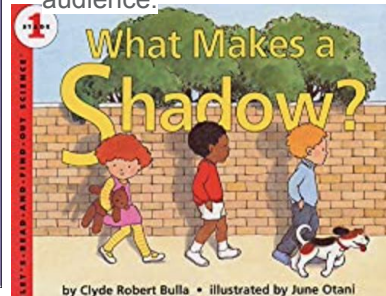
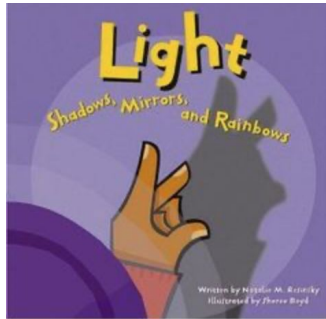
# \* WHAT ARE SHADOWS

Books:

My Shadow Is Pink By: Scott Stuart

What Makes A Shadow: Clyde Robert Bulla

Light, Shadows, Mirrors, and Rainbows By: Natalie Myra Rosinsky



Activities:

**Shadow Puppets:** Spend several days creating stories with the class in small groups. Each group can create puppets for their shadow show. For the performance, hang a sheet, place a light source behind it, and have children use their puppets behind the sheet to act out their story while you (or they) read their words.

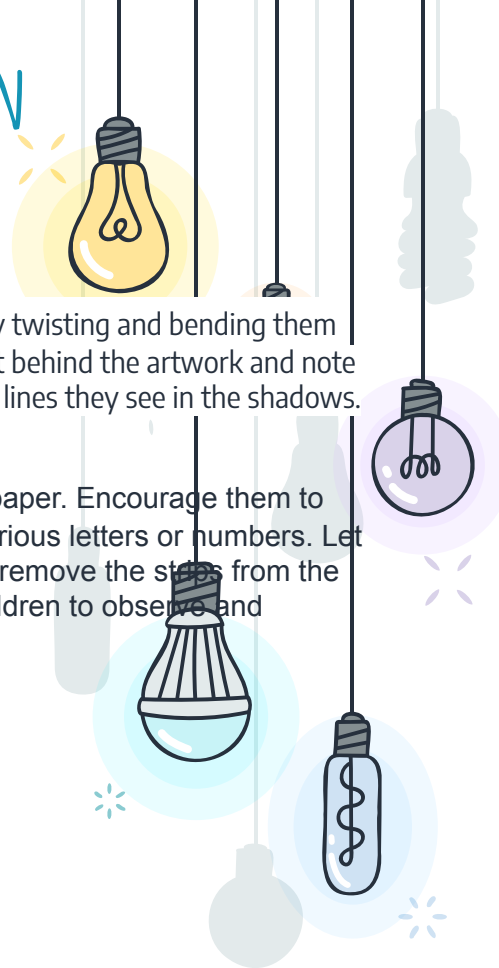
**Sunglasses:** Add a basket of sunglasses to the Dramatic Play Center. Talk with the children about when and why they might wear sunglasses. Invite them to use them as they play.

**Shadow Play:** Hang a white sheet, place a light source behind it, and invite children to stand behind the sheet and act out stories. They can retell familiar stories or create new stories of their own. Some children can be the performers and others can be the audience.





# WHAT DO WE SEE IN OUR EVERYDAY LIVES WITHIN LIGHT?



Activities: Stained Glass Windows:

Pipe Cleaner Art: create designs with pipe cleaners by twisting and bending them together. Hang this art in front of a blank wall. Shine a light behind the artwork and note the shadows created. Invite children to look at the types of lines they see in the shadows.

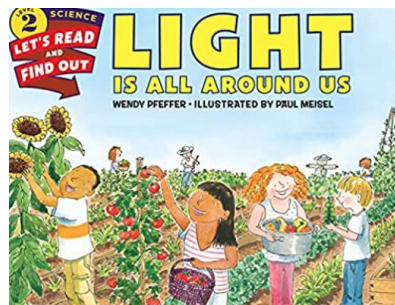
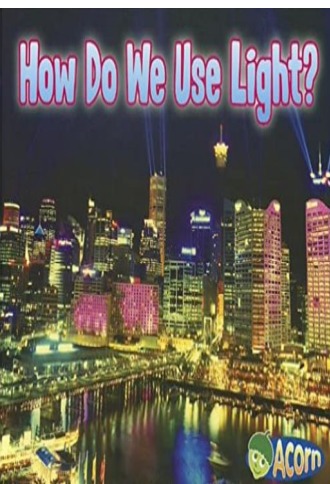
Sun Stains: invite children to place the lines on the paper. Encourage them to consider how they could combine the lines to make various letters or numbers. Let the papers sit for a few days. Later, revisit the papers, remove the strips from the paper and examine the paper together. Encourage children to observe and consider what happened and why.

Books:

How Do Use Light? By: Daniel Nunn

Light Is All Around Us By: Wendy Pfeffer

How Does My Home Work? By:  
Chris Butterworth





THANK YOU

