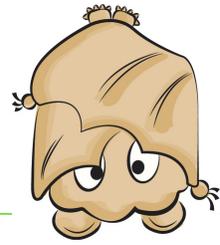




# DARK BOX

Grades K-3/4-8



## MAKE A DARK BOX

**K-8:** Students make and decorate a peephole box like a bat cave or a house.

### GRÜEZI!

5 min

### SNACK & FREE PLAY

30 min

### STORY TIME

15 min

### STEM TIME

50 min

#### Materials:

- Shoeboxes or packing boxes
- Viewing cards
- Pencils
- Scissors
- Tape or glue
- Paper
- Colored pencils
- Popsicle sticks

#### Grüezi is Swiss German for hello!

Greet your students. Be friendly. Use their name, ask a question, give a high five, or thumbs-up! Take roll. Mark down which students took a snack and tally how many snacks were given out.

#### Enjoy Free Play:

Students will have their snack and enjoy time to free play.

#### Read the story:

Read to your students outside as they sit in a circle. Older students may choose to read their own books.

#### Make and decorate a bat cave or dark box

The students get to make a peephole box to understand how light helps them to see! They will be decorating these boxes over a few days, and they will also get to have a contest to see who decorated their box the best! Grades K-3 will use their boxes as a bat cave, and grades 4-8 will decorate their box as a house. Inform the students that at the end of the week they will get to vote on which boxes they like most. The STEM coaches can come up with ribbons or prizes for the best dark box dioramas. Encourage the students to be creative and have fun with this project!

#### Instructions:

1. Have students poke or cut a small viewing hole in the side of their box. It should be big enough to see through but not so big that it lets a lot of light in.
2. Students will glue or tape their viewing cards to the inside of the box.
3. Students will use the viewing hole to observe their cut-out cards inside their dark box. The STEM coach can display the worksheet for the students and lead a discussion on what colors, shades, and text size they could see in their dark box.
4. The **K-3** students can use toys, paper, popsicle sticks, artwork, etc, to decorate the inside of their boxes to look like the inside of a house. This will be a bat cave for the baby bats they will make during another activity.

The **4-8** students can use toys, paper, popsicle sticks and artwork to decorate the inside of their boxes to look like the inside of a house as well. Remind students not to cut windows or doors into their boxes because they need to be dark inside when they are closed.

5. Save student's boxes for later.



## SPORTS / GAMES

25 min

### Materials:

- Play area with lots of objects within running distance

\* Older students may choose to practice their sport instead of playing the game of the day.

## HOMEWORK / FREEPLAY

20 min

## CLEAN UP / DISMISSAL

5 min

## I SPY!

Kids will play I Spy to encourage them to become more observant of the environment around them. This game of I SPY is most ideally played in a large area outside, but can be played inside as well. Encourage the students to pay attention to their environment as they play the game to see if they notice or learn anything new.

Instructions- Have students line up outside. The first student in line will be the first "Spy." Invite this student to come to the front and face the group. This student will look around and find an object within the playing field. The student will then announce to the group, "I spy with my little eye something..." (example: something blue, something green and leafy, something colorful, something that you sit on, something that you swing on etc.). Without saying a word, the students will then run to the object they think the Spy is thinking of. Once all the students are standing by an object the Spy will then yell out what the object was! Everyone will come back together and line up in the same order. The Spy will go to the end of the line and the next person will become the Spy. The game will continue until everyone has had a turn to be the Spy. For larger groups, to allow everyone the opportunity to be the "Spy," the STEM Coach may want to organize students into 2 or more groups and have multiple games going at once.

### Instructions:

Allow your students some homework time. If they need help let them know you can help them. If they do not have any homework they can have some reading time, or they can have free time to go outside and play.

### Clean up/pack up/d dismissal

Clean up, pack up and practice lining up.

