

## STEAM Grab and Go Information

Archbold Community Library

For each kit, I plan to post an accompanying video of demonstration, discussion of important STEAM concepts and fun tips.

If you have difficulty finding any of the supplies, I have links I can send you that I gave my director for the purchase of each item.

### 8 Weekly STEAM Grab and Go Bags for grades k-3

1. Catapult Kit – you'll find this in the Reimagined CSLP additional resources pg. 72  
Great discussion on simple machines... get the math in there by having them measure how far their pompom flew.  
I am using Tongue depressors as they work better.  
Supplies needed:  
Tongue Depressors  
Rubber Bands  
Pomp om balls  
Plastic spoons
2. Straw Pipe Musical Instrument Kit Reimagines CSLP additional resources page. 176  
Supplies Needed:  
Straws  
Tape  
Scissors ( I am not supplying scissors)
3. Mystery In A Bag <https://buggyandbuddy.com/mystery-bag-stem-challenge/>  
This includes free printable labels and mystery cards. I am going to include in my bags, craft rolls purchased from oriental trading (toilet paper rolls), mini paper plates, scotch tape, straws, pipe cleaners and another supplies I have sitting around in my craft supplies. Each bag will have four mystery cards included so the child may choose his/her card.
4. Marble Labyrinth Kit <https://buggyandbuddy.com/paper-plate-marble-maze/>  
This website uses paper, but since I have so many straws I thought that would be fun.  
Supplies needed:  
Straws  
Large Dixie style paper plates with high lip  
Marbles  
Tape

5. Forensic Science - Fingerprint Challenge Kit CSLP Reimagine additional resource guide pages 149,152,154

I purchased tiny stamp pads for this project and 50 cent magnifying glasses.

Supplies needed:

Copies of above pages

Stamp pad

Magnifying glass

6. Flying Bat Kit <https://buggyandbuddy.com/flying-bat-straw-rockets/>

This website includes a free printable of a colored or black and white bat appropriate for this project. I am going to print it out on cardstock in black and white.

Supplies needed:

Tape

Bat

Scissors

Pipettes

Straws

7. Coffee Filter Art and Science – you can also find this on page 241 of the CSLP additional resources

<https://www.giftofcuriosity.com/coffee-filter-art/> this website explains the science of it all

My local gas station gave me HUGE coffee filters!! Thought I would make use of them

Supplies needed:

Coffee filters

Markers (I am not supplying markers)

Pipettes

8. Shelter From the Sun Bead Animals with UV light Sensitive

Beads <https://buggyandbuddy.com/sun-shelter/>

This website includes a free printable to for recording results of sun shelter.

I purchased the UV light sensitive beads from S&S Worldwide...make sure you get the PONY beads, not the round beads!!!

Supplies needed:

UV sensitive beads

Pipecleaners

Popsicle sticks

Straws

Foil or construction paper ...whatever you have.

Tape

This could be a great discussion on the effects of the sun on our skin without sun protection.

## 5 Weekly STEAM Grab and Go Bags for grades 4-7

1. Catapult Kit – basically the same kit as week one in the grades k-3  
Supplies needed (SEE ABOVE)
2. Index Card Towers <https://www.madison-schools.com/cms/lib4/MS01001041/Centricity/Domain/410/Jumpstart%20activities%20index%20card%20loops%20catapult%20sculpture.pdf> I won't be allowing tape.  
Supplies Needed:  
Just need index cards!!! I am giving them like 150 colored cards... found cheap on amazon.  
Encouraging them to take a picture of their structure and send to me or post...not sure what platform I'm doing this on yet.
3. Skittles Science Project-<https://www.rookieparenting.com/candy-science-with-video/>  
Supplies needed  
Skittles (I am giving them two packages... one to eat, one for the experiment)  
Water  
Great discussion on diffusion and solubility.
4. Surface tension and Coins <https://www.rookieparenting.com/how-many-drops-of-water-can-you-put-on-a-penny/>  
Supplies needed:  
Pennies  
Pipettes  
Water
5. Toothpick Star Science Experiment <https://www.rookieparenting.com/toothpick-star-science-experiment/>  
Supplies needed:  
Round wooden toothpicks ( I am giving them extra just incase they break.)  
Water  
Concepts: capillary action, adhesion, and cohesion.