Three Dimensional Thinking

Collecting and Sorting
Collecting

In this activity we will collect recycled and repurposed 3D items. These items can be:

- buttons
- q-tips
- screws
- paper clips
- shells
- cans
- cotton balls
- straws
- wood scraps
- keys
- sticks
- yarn
- spools
- rubber bands
- feathers
- wood scraps
- egg cartons
- popsicle sticks
- cloth
- bottle caps
- sponges
- tape rolls
- string
Sorting

You will need a cleared space to organize the 3D items that you collected. Sort through and group them as *like with like*:

- round with round
- long with long
- sparkly with sparkly
caps with caps
- plastic with plastic
- metal with metal
- string with string
- wood with wood
tall with tall
colorful with colorful
cans with cans
What can I do with these three dimensional items?

I can *stack*.
I can *balance*.
I can *build*.
I can make *patterns*.

Let’s explore some ideas!
We can make as many 3D constructions as we like!

I can stack all my bottle caps and make a tower.

I can build and balance all my round forms and make a taller tower.
What can I do with these three dimensional items?

I can make patterns.

I made a red and yellow pattern of feathers.

I made a sparkly and popsicle stick pattern.
Storage

Let’s store our sorted items for the next Three Dimensional Thinking activity in plastic baggies.

Count the groupings of like with like that you made and store each group in a plastic baggie for next time.
Three Dimensional Thinking

Constructions with Texture
Sorting

*Looking for Texture*

In this activity we will need our sorted three dimensional items and a cleared space.

Unpack all your sorted items from their plastic baggies. Take a good look and select from them the different textures you can see.

Touch and feel them to know their textures and sort them.

They can be:

- shiny, sparkly, rough, soft,
- smooth, bumpy, hard, itchy,
- hairy, fluffy, gritty, slippery
A Shiny Sparkly Construction

Select shiny and sparkly textures from your sorted texture group.

What can I do with these three dimensional items that have these shiny sparkly textures?

Let’s explore some ideas!

I can stack.
I can balance.
I can build.
I can lean.
I can make patterns.
A Soft Construction

Select soft textures from your sorted texture group.

What can I do with these three dimensional items that have these soft textures?

Let’s explore some ideas!

I can stack.
I can balance.
I can build.
I can lean.
I can make patterns.
Let’s Draw Our Three Dimensional Textured Construction!

You will need a single piece of white paper and something to draw with, like a marker or a pencil.

Take a close look at your construction. It has textures. Some sides have more textures and other sides have fewer textures.

*Can you draw it to include the textures you see in your drawing?*