

Playing At Home

FILTRATION EXPERIMENT

- Mix up some dirty water in a pitcher.
- Place your plastic bottle inside another container, cut side up.
- Decide which filtration material or combination of filtration materials you would like to experiment with and place them in the bottle.
- Carefully pour the dirty water into the bottle and observe how much of the dirt is filtered out.
- Try other materials. What else can you think of that might work?
- Experiment with layering different filtration materials. Coarse to fine? Fine to coarse? Does it make a difference? What works best?
- Compare which materials are most/least effective.
- Options:
 - Record your observations
 - Re-filter the water and see how clean you can get it

YOU WILL NEED:

- Plastic Bottles with the bottom cut out
- Clear container to set the bottle in
- Variety of filtration materials: coffee filters, gravel, cotton balls or fluff, paper, sand, rice, beans, etc.

SONG OF THE WEEK

LITTLE DROP OF RAIN

(Tune: If You're Happy & You Know It)

First a little drop of rain hits the ground,
Then another drop of rain hits the ground,
Then another & another & another & another,
And pretty soon you hear a different sound,
SPLISH! SPLASH!

WHAT IS MY CHILD LEARNING?

- Learning about cleaning water can help us to be more careful and respectful of our natural resources.
- Hypothesizing, experimenting and observing (maybe recording as well) simple projects can introduce your child to the scientific method and provide ways to learn about things they are curious about.
- Coming up with ideas for what materials will work to filter the water and how to best utilize them encourages creativity and problem solving.
- **Cognitive Development:** This experiment sustains attention and focus, provides an opportunity for a multiple step activity and helps make connections between the natural world and the project.
- **Physical Development:** Carefully pouring water from one container to another exercises eye to hand coordination and large muscle coordination.
- **Language/Literacy Development:** Describing and recording observations helps build vocabulary, sequencing, and complex idea sharing.

POWER OF PLAY MESSAGE

PLAY INFUSES JOY

- Play brings joy into our hearts, our families and our world.



 play to learn
Pierce County

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