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## Rain Barrels



### STANDARDS & CONNECTIONS:

NGSS. 3-5-ETS1-3, NGSS.MS-ETS1, NGSS.MS-LS2-5

#### BACKGROUND:

As soon as rain hits our roofs it begins its journey to our lakes and oceans. Along the way, it collects chemicals, fertilizers, trash, and other pollutants. Collecting rain runoff from our roofs is one way to conserve and limit the amount of runoff that flows from your home or school. This water can be collected and stored in a rain barrel for future use!

#### SUGGESTED MATERIALS:

Plastic barrels, garden hose, mesh, spigot, Teflon tape

### QUESTION:

How can we catch our runoff?



#### CREATE

Students will create a rain barrel for their school or home.



#### TEST & IMPROVE

Students will test their rain barrel, seek areas of improvement, and begin to investigate how to filter the runoff they have collected to improve water quality.



#### SHARE

Students will share their rain barrel creation with their school and discuss the benefits of collecting some of our runoff.



Investigate how to filter rain barrel water to improve its quality and what your local community has already done.

