

This booklet belongs to: _____

Storm water Activity Book



An Activity booklet designed to teach children about
water resources and stormwater pollution

WATER MAZE

Water moves through the borough in various ways. Some water travels over the ground, other water goes into storm drains, both go to one of two streams, Walnut Bottom Run or Wallace Run. These streams empty into the Beaver River.

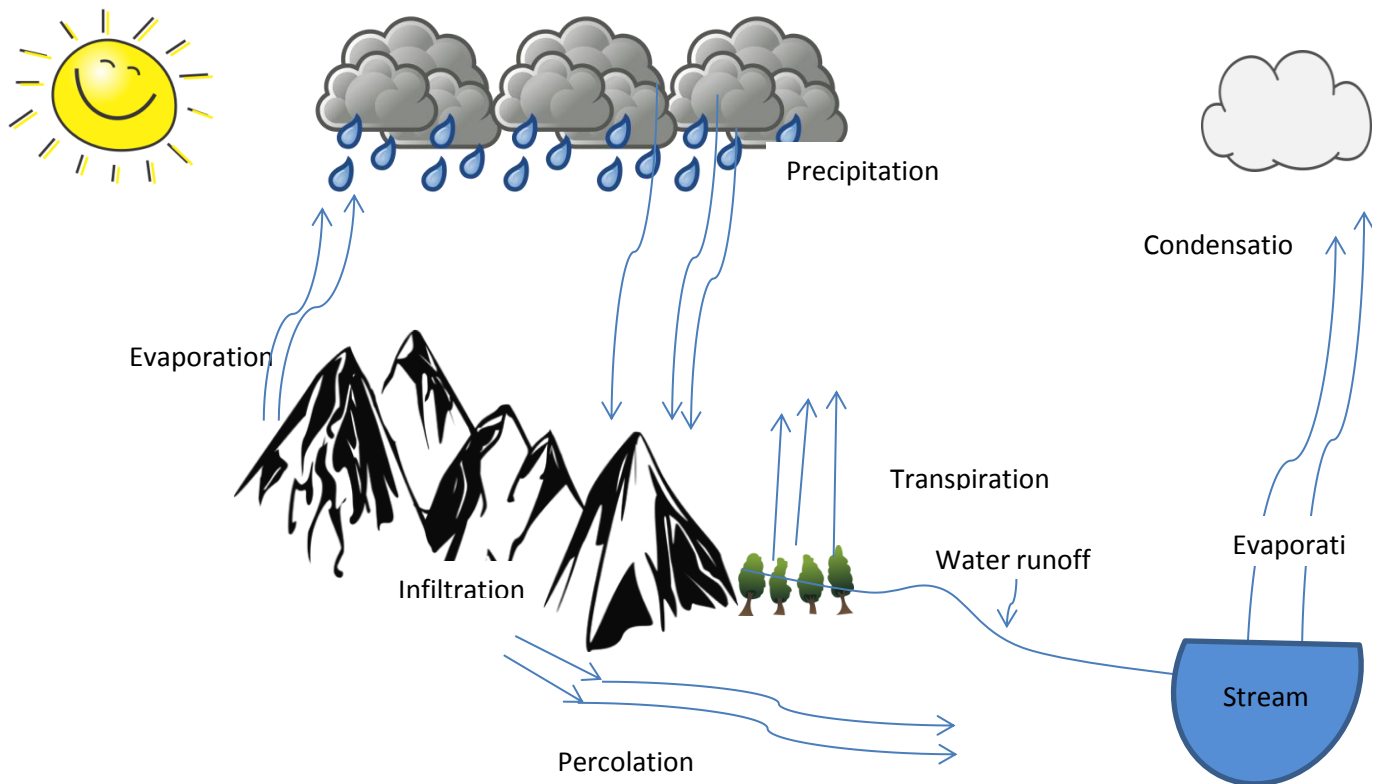
Raindrop



Start



Did you know that a cistern is a tank for storing rainwater.
Rain barrels are a good type of cistern.



Evaporations: When water is heated by the sun, it causes the water to turn into vapor and rise into the air.

Transpirations: Water that plants give off as vapor.

Condensation: When water vapor cools, it turns into tiny drops of water. These combine to make clouds.

Precipitation: The water in clouds fall to the earth as rain or snow.

Runoff: The water falling onto the ground through precipitation runs back into the streams, rivers, lakes and oceans over the surface of the ground.

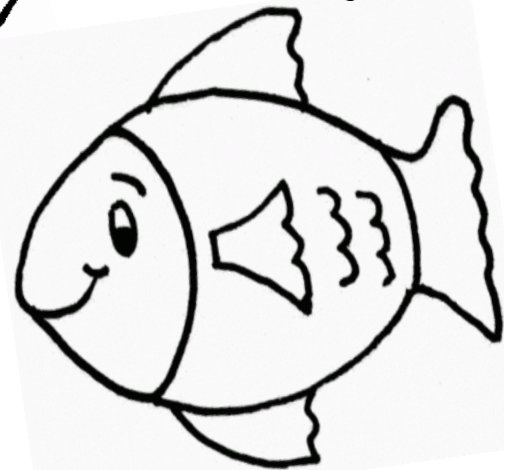
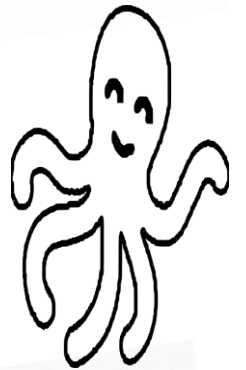
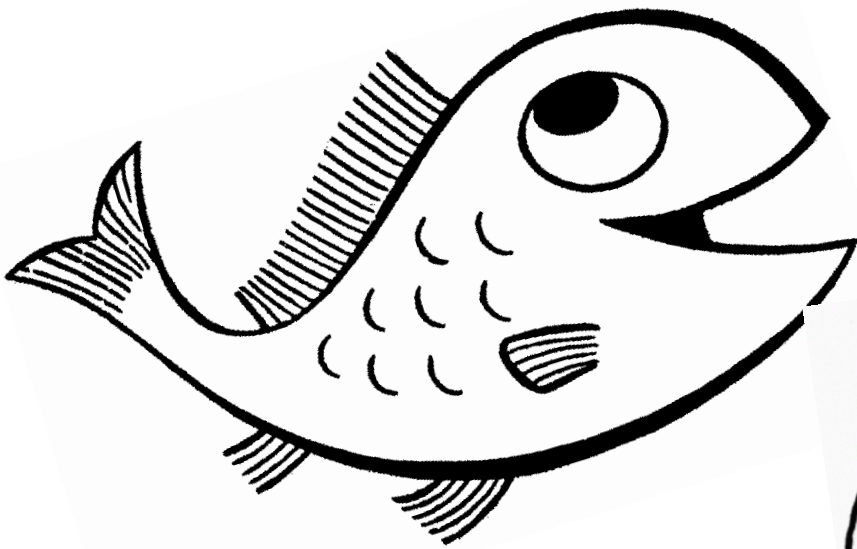
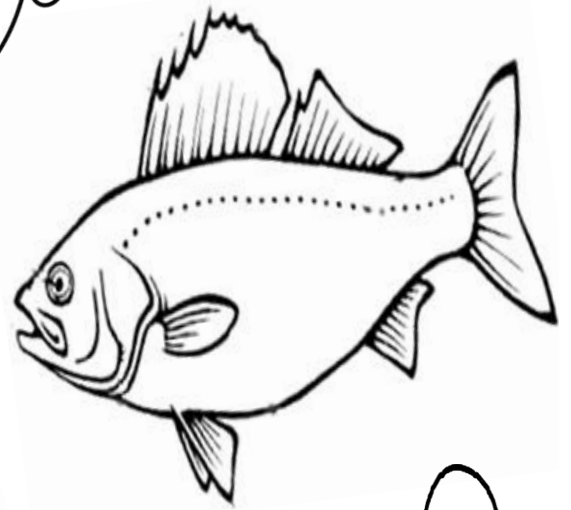
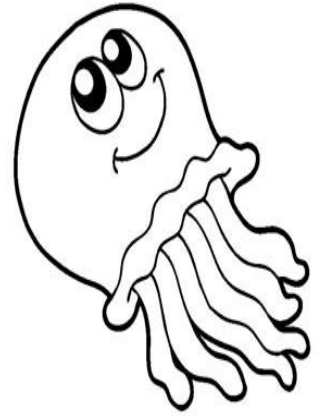
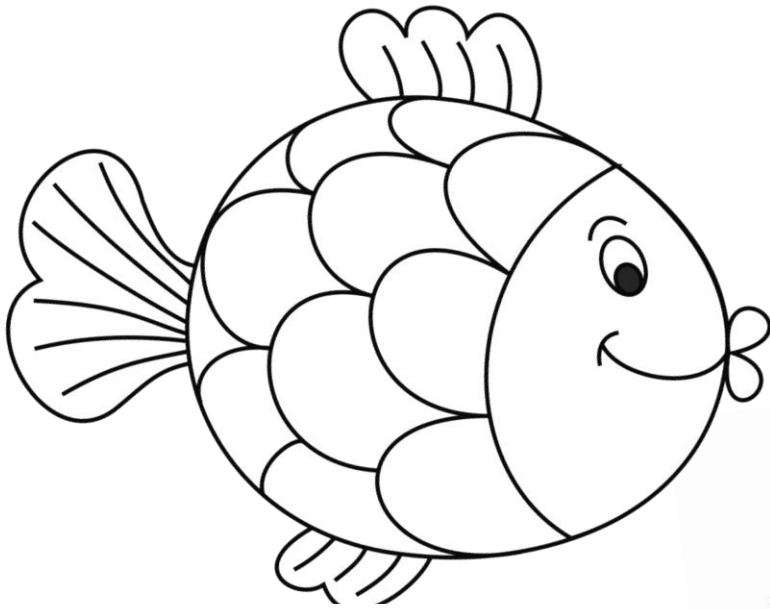
Infiltration: When water enters the soil surface.

Percolation: What water's called after it's infiltrated into the ground and then moves through the soil.

Hydrology: The study of how water moves through the environment.

Impervious Surface: Are mainly artificial surfaces like roofs, roads, sidewalks and parking lots that are impenetrable to water, which makes water runoff.

Did you know the water you drink is as old as the earth itself? Dinosaurs may have swum in the water from your kitchen sink. The earth's water supply is about the same as it was millions of years ago. That's because every molecule of water is recycled over and over through the water cycle. More than 99% of the earth's is salt water in oceans or trapped in the ice caps or deep underground. That leaves only 1% of the earth's water left for us to use. Let's make sure we protect that 1% and keep it clean.



What is Stormwater?

When rain falls or snow melts, where does the water go? Some is soaked into the ground, some sits in puddles, and some disappears. Water that flows over the land surface, downhill to the nearest stream by way of a ditch or through drain pipes is called stormwater runoff.

When storm drains are free of debris, water can drain easily from roadways, parking lots, and playgrounds. When storm drains are clogged, this causes the potential of flooding on these surfaces, which can also cause contamination. Never put anything down a storm drain.

Perennial Streams: Are streams that flow year round like Walnut Bottom.

Intermittent Streams: Are streams that flow part of the year or seasonally.

Ephemeral Streams: Are streams that only flow in direct response to precipitation.

Many of the small drainage ways without any bed or banks are some of the most important in protecting a stream from pollution. These streams are highly infiltrative. Help protect our streams by not dumping into storm drains or ditches.

Some more things that can cause water pollution:

- Dumping oils or grease into storm drains.

- Over use of pesticides directly onto the ground.

- Trash (paper bags, paper cups, straws, cigarette butts anything that should be put in the trash can and NOT on the GROUND.

- Spills like gasoline or fertilizer.

- Anything that isn't naturally there.

