

# Create Your Own Cloe!

Cloe is a **tunnel boring machine (TBM)**, a special piece of equipment built to dig tunnels – like RiverRenew’s Waterfront Tunnel – deep underground.

Using everyday objects and the cutouts on the next page, you can make your own TBM at home!

Want to show your creation to Cloe herself? Snap a pic and post it to social media (or have an adult share it for you) with the hashtag #TunnelTakeoverTuesday.

## Things you need

Toilet paper roll

Safety scissors

String

Crayons, markers, or colored pencils

Tape, rubber bands, or glue

Pen (optional)

## Instructions

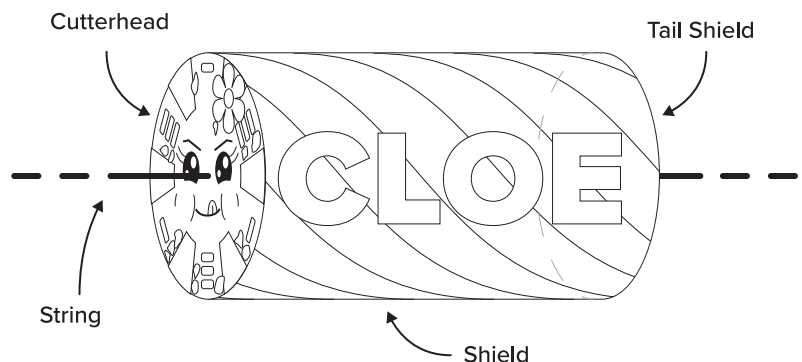
1. **Color and cut out** Cloe’s *cutterhead*, *shield*, and *tail shield*
2. **Poke** a hole through the dot in the center of Cloe’s *cutterhead* and *tail shield*
3. **Wrap** Cloe’s *shield* around the toilet paper roll and secure with tape or glue
4. **Fold** Cloe’s *cutterhead* across one end of the toilet paper roll
5. **Secure** the *cutterhead* by wrapping rubber bands around the folded pieces
6. **Pull** the string through the hole in Cloe’s *cutterhead* and into the toilet paper roll
7. **Pull** the string out of the toilet paper roll and through Cloe’s *tail shield*
8. **Repeat** steps 3 and 5, but with Cloe’s *tail shield*, to secure it to the roll
9. **Pull** the string tight so Cloe has a secure line to travel on
10. **Anchor** the loose ends of the string to two different points with Cloe in the middle
11. **Help Cloe** dig along the string!

## Glossary

**Cutterhead:** the face of the TBM that spins as it cuts through dirt

**Shield:** the sides of the TBM that support the earth while the tunnel is built inside

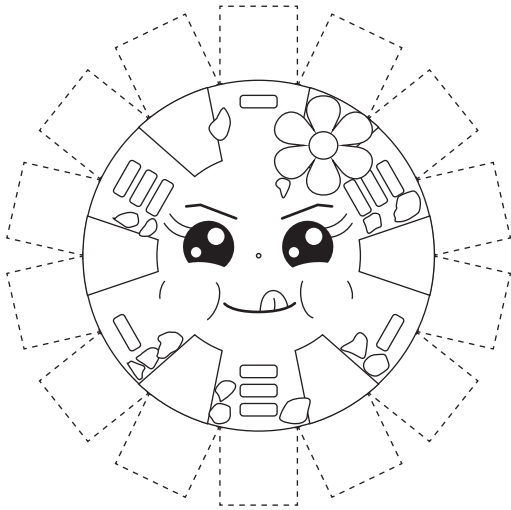
**Tail Shield:** the part of the TBM that supports the earth at the back of the shield



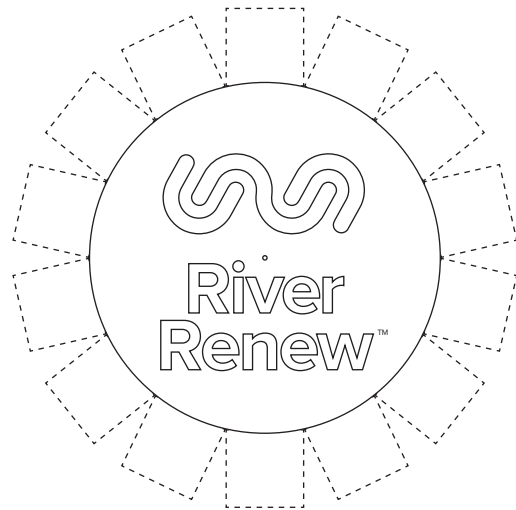
Need help creating your Cloe? Scan the code to watch an instructional video.



Cutterhead



Tail Shield



Shield

