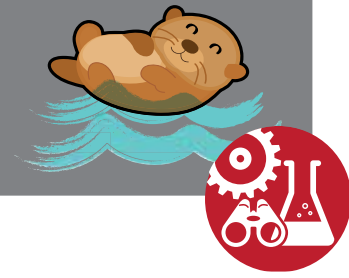


STEM

Science | Technology
Engineering | Mathematics

BUILD A BETTER BEAVER BUGGY!

RASCAL'S RIVER Creative Expression



THE ADVENTURE:

Get ready for the Beaver Buggy rally of your dreams! Take your Beaver Buggy to the next level and make it the fastest one at the rally.



PLAN:

- What will you use to build your Beaver Buggy? Where will you get these things?
- What are the rules for Beaver Buggies? How can you make sure your Beaver Buggy follows the rules?
- When and where will you design and make your Beaver Buggy? Will the Beavers in your Colony design and make their Beaver Buggies on their own, or will you work in pairs? Will you take time at a meeting to design your Beaver Buggies before making them at home?
- Do you know how a Beaver Buggy works?
- What makes one Beaver Buggy go faster than another? Think about each part of the Buggy—the wheels, the body and the axels. How does each part affect the speed of the Buggy?
- What happens if you place the Beaver at the front of the Buggy? At the back? In the middle?

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the
Pond

Imperial



ExxonMobil



It starts with Scouts.

Do:

- Build your Beaver Buggy!
- Test out your Beaver Buggy, and make changes to help your Buggy win the rally.
- What changes can you make to your Beaver Buggy to speed it up?
- What happens if you move the Beaver closer to the front of the Buggy? The back?

REVIEW:

- What do you know now that you did not know before?
- Which Buggies went the fastest? Why?
- What slowed down your Beaver Buggy? What changes helped it go faster?
- What did you like about this adventure? What did you not like? How would you do this adventure differently?
- What elements of STEM were in this adventure? Science? Technology? Engineering? Mathematics?

SAFETY TIP:

- How can you stay safe when using tools to make your Beaver Buggy?
- How can you stay safe when using chemicals like paint and glue?

ONLINE RESOURCES:

- Design Tips
- Beaver Buggy Building Guidelines
- Bill Nye: Friction
- Aerodynamics, Wind Resistance & Streamlined Cars of the Future