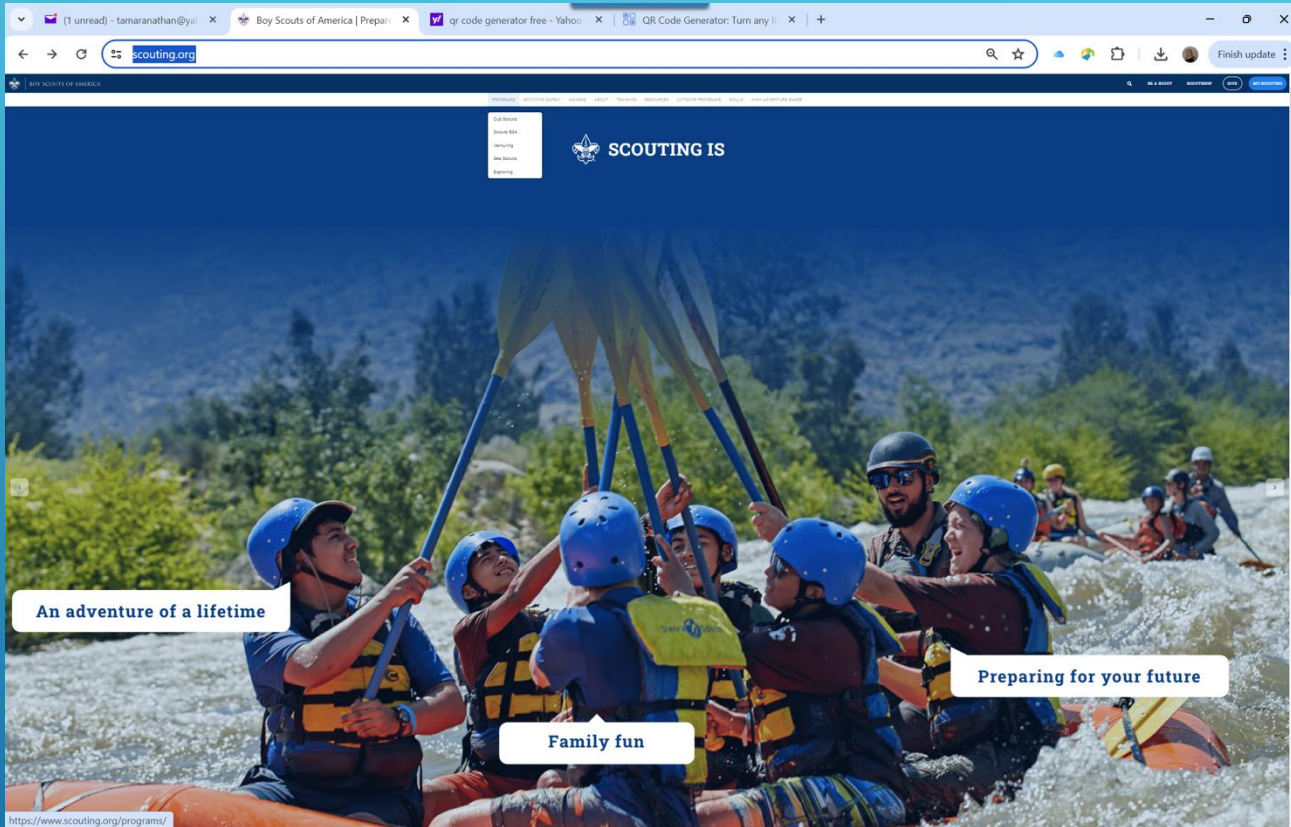


# JUST A REMINDER: NAVIGATE FROM SCOUTING.ORG OR QR CODE

- Program
- Cub Scouts
- (scroll down) Cub Scout Adventures



# Race Time



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Race Time	Race Time	Race Time	Race Time	Race Time	Race Time
1) With your Lion adult partner, assemble and decorate either a Pinewood Derby car or a Raingutter Regatta boat.	1) With your Tiger adult partner, assemble and decorate either a Pinewood Derby car or a Raingutter Regatta boat.	1) With an adult, build either a Pinewood Derby car or a Raingutter Regatta boat.	1) With an adult, build either a Pinewood Derby car or a Raingutter Regatta boat.	1) With an adult, build either a Pinewood Derby car or a Raingutter Regatta boat.	1) With an adult, build either a Pinewood Derby car or a Raingutter Regatta boat.
2) Learn the rules of the race for the vehicle chosen in requirement 1.	2) Learn the rules of the race for the vehicle chosen in requirement 1.	2) Learn the rules of the race for the vehicle chosen in requirement 1.	2) Learn the rules of the race for the vehicle chosen in requirement 1.	2) Learn the rules of the race for the vehicle chosen in requirement 1.	2) Learn the rules of the race for the vehicle chosen in requirement 1.
3) Before the race, discuss with your Lion adult partner how you will demonstrate good sportsmanship during the race.	3) Before the race, discuss with your Tiger adult partner how you will demonstrate good sportsmanship during the race.	3) Identify how you could increase the speed of your chosen vehicle.	3) Identify how you could increase the speed of your chosen vehicle.	3) Explore the properties of friction and how it impacts your chosen vehicle.	3) Mentor a younger den to prepare for the race.
4) With your Lion adult partner participate in a Pinewood Derby or a Raingutter Regatta.	4) With your Tiger adult partner participate in a Pinewood Derby or a Raingutter Regatta.	4) Before the race, discuss with your den how you will demonstrate good sportsmanship during the race.	4) Before the race, discuss with your den how you will demonstrate good sportsmanship during the race.	4) Before the race, discuss with your den how you will demonstrate good sportsmanship during the race.	4) Before the race, discuss with your patrol how you will demonstrate good sportsmanship during the race.
		5) Participate in a Pinewood Derby or a Raingutter Regatta.	5) Participate in a Pinewood Derby or a Raingutter Regatta.	5) Participate in a Pinewood Derby or a Raingutter Regatta.	5) Participate in a Pinewood Derby or a Raingutter Regatta.

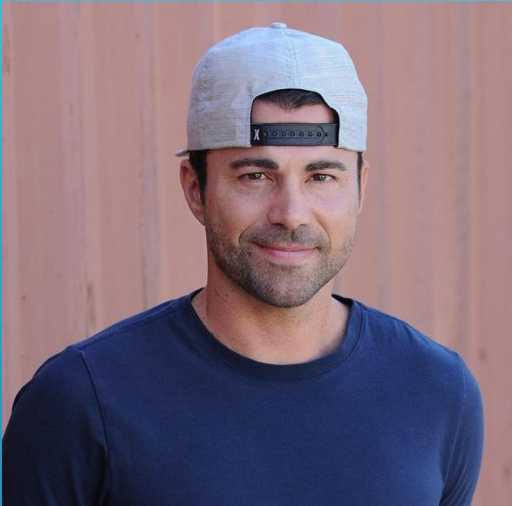
Activity Center	Content	Comments
<b>Prior to Meeting</b>	<p>With an adult/with adult supervision build either a Pinewood Derby car or a Raingutter Regatta boat.</p> <p>Learn the rules of the race for the vehicle chosen.</p> <p><i>(During Build Workshop):</i> Identify Three Ways to make your <a href="#">Pinewood Derby Car</a> or <a href="#">Raingutter Regatta Boat</a> faster</p> <p>Explore the properties of friction and how it impacts your chosen vehicle</p>	<p>All Dens</p> <p>Adult Leaders + AOL Den (Optional)</p> <p>Webelos Den</p>
<b>Gathering</b>	<p>Before the race, discuss how you will demonstrate good sportsmanship during the race.</p> <p>Vehicle Check In</p>	<p>All Dens led by AOL Den</p> <p>Adult Leaders + AOL Den (Optional)</p>

# Build Day



Pack 2831, Chesterfield VA

Parameter	Car Length Advantage
Center of Mass location	4.6 (36%)
Lightweight Wheels	2.1 (16%)
Aerodynamic	1.4 (11%)
Polished Nails	1.3 (10%)
Lifted Wheel	1.1 (9%)
Graphite	0.9 (7%)
Other	1.4 (11%)



Mark Rober, Engineer



# Raingutter Regatta



Pack 3306, Mentor OH



Pack 64, Elma IA

# Pinewood Derby



Pack 519, Bainbridge GA



Pack 149, Harlan KY

# Make it Fun!



[GlueStickBlog.com](http://GlueStickBlog.com)



Pack 2831, Chesterfield VA



[CubScoutIdeas.com](http://CubScoutIdeas.com)

# Make it Fun!



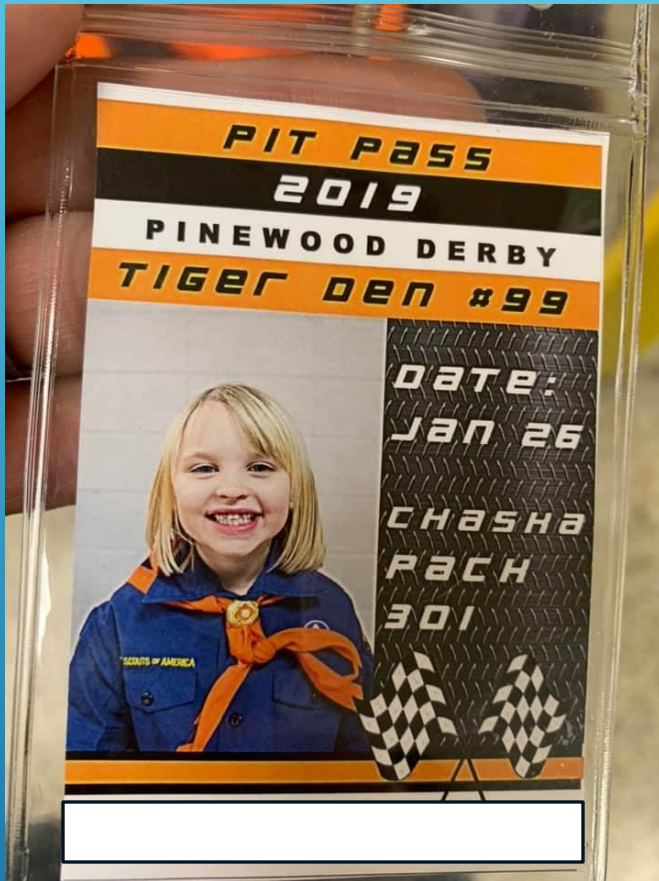
Pack 390, San Jose CA

# Make it Fun!



Tamara Christensen

# Make it Fun!



Pack 301, Chaska MN



Pack 149, Harlan KY

# Resources to Check Out

Cub Scout Den Meeting Resources: <https://www.scouting.org/programs/cub-scouts/adventures/>

Sam Houston Area Council Cub Scout Resources: <https://shacbsa.org/program-planning>

Cub Scout Ideas: [www.cubscoutideas.com](http://www.cubscoutideas.com)

Facebook Groups:

- Cub Scouting Tips and Tricks
- Cub Scout Volunteers
- Cub Scout Leaders Scouting Cubmasters Den Leaders