

Name:

Super Spinners! (Teacher Version)

What's Torque?

Torque is the effort it takes to make something spin! Can you describe the torque seen in the following images?

- a) *The force from pushing and the weight of the child makes the merry-go-round-ride spin*

- b) *The force put on the end of the wrench allows the worker to tighten the bolt.*

- c) *The force put on the handle of the top allows it to spin.*

Name:

Talk About It!

1. What purpose do you think the handle has in getting the top to spin? *The handle gives something to hold so that a person could apply a force and spin it.*
2. Can you list some other situations where torque is useful? *Opening a jar, going around a merry go round.*
3. Describe how a teeter-totter is an example of torque. *If the ground wasn't in the way, the teeter-totter could spin the same way as the other objects we've described: around a centre point.*

Did You Know?

A () is also a piece of jewellery made from metals strands that have been intertwined. This

Name:

1. Wooden Spinning Tops: <http://www.woodenspinningtops.com/Home.html>
2. This Old House: <http://www.thisoldhouse.com/toh/article/0,,1222593,00.html>
3. Hope Stands: <http://samuelkee.com/2011/01/>

1. Wikipedia: http://en.wikipedia.org/wiki/File:Blank_cd.png
2. Once Upon A Teacher: <http://onceuponateacher.blogspot.ca/2014/01/kindergarteners-use-their-magic-pencil.html>
3. Esko: <http://blog.esko.com/category/packaging-materials/cardboard-packaging-2/>
4. 4Vector: <http://4vector.com/free-vector/free-vector-vector-clip-art-scissors-clip-art-116113>
5. Vex Robotics: <http://www.vexrobotics.com/275-1089.html>
6. Second Law Media: <http://www.secondlawmedia.com/how-much-time-does-it-take-to-manage-a-ppc-campaign/>

1. The History Blog: <http://www.thehistoryblog.com/archives/7977>

1. Yoola: <http://www.yooladesign.com/2013/12/spin-your-dreidel-your-spinning-top-your-kreisels-collecting-over-the-world/>

- 1.