**Centripetal Force Video worksheet**

**Answer the following questions:**

**Before viewing the video:**

**1.** Imagine swinging a weight tied to a piece of string, in a circular path above your head. If you let go of the string would it continue travelling in a circular path? Why or why not?

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**During viewing of the video**

***Click on the link below and go to the video on abc splash***

[***Centripetal force demonstration*** http://splash.abc.net.au/home#!/media/1423825/a-force-with-strings-attached-](http://splash.abc.net.au/home#!/media/1423825/a-force-with-strings-attached-)

2. What do you notice as the bucket of water is swung in a circular path?

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3. What happens when the two girls hold hands and spin around as fast as they can?

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4. What force do they experience?

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5. What happens to the man, when the presenter clasps hands with the man and swings in a circle, and then lets go?

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**After viewing the video:**

6. Write a definition for centripetal force

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7. Draw a diagram showing the forces involved in swinging a cup of water in a circular path.