Supplemental Helmet Education Activities

BRAIN DEMONSTRATION:

Purpose:

Add a hands-on and interactive element to your equine helmet education program! Create a life-like brain out of gelatin to demonstrate the fragility of the human brain and the importance of protecting it.

Acitivity:

- 1. Pass one gelatin brain (on plate) around the participants to allow them to touch, jiggle and experience the fragility of the human brain. You may keep the brain on a plate in a ziplock to prevent mess, or allow to be uncovered to allow the youth to touch it.
- 2. Use a second gelatin brain mold (in ziplock) to demonstrate helmet effectiveness. Place the brain in a demonstration helmet (astm/sei ceritified) and drop the helmet from 6-8ft high. This height demonstrates the average height off the ground a rider's head is when they riding a horse.
- 3. After dropping the helmet with the brain in it, pull the brain out and show the level of damage (more like the lack of damage) to the gelatin.
- 4. Next, drop the unprotected brain from the same height to demonstrate the damage that can occur without a helmet.
- 5. You can also demonstrate the helmets by dropping honeydew melons with and without a helmet.
- 6. Have the youth reflect on what they have seen and learned.

Supplies:

- Brain mold
- Spray vegetable oil
- 2(6 ounce) boxes gelatin, mix any flavor (peach or watermelon give the best color)
- 1 ³/₄cups boiling water
- ³/₄cup cold water
- 9ounces fat-free evaporated milk(must be fat-free or it will curdle)
- TO MAKE GRAY
 - 15drops red food coloring
 - 15drops green food coloring
 - 15drops blue food coloring

Directions:

- 1. Before each use, wash the mold with warm soapy water and a soft cloth or sponge.
- 2. Spray or smear the inside of the mold with a small amount of vegetable oil, then wipe out the excess.
- 3. Put the gelatin mix in a large bowl and add the boiling water.
- 4. Stir about two minutes until the mix is dissolved.
- 5. Stir in the cold water.
- 6. Stir in the evaporated milk and food coloring.
- 7. Adjust coloring until it is the perfect pinkish-gray and stir.
- 8. Pour the mixture in the brain mold, stopping about 1/4 inch from the top.
- 9. Place the brain mold in a shallow bowl so it will sit level, and refrigerate overnight.
- 10. To remove the brain, shake the mold gently until the gelatin loosens.
- 11. Place a flat plate upside down over the open side of the mold, then flip the mold and the plate together.
- 12. Lift the mold off, leaving the brain on the plate.

Supplemental Helmet Education Activities

EDUCATIONAL VIDEO: Every Time, Every Ride

Purpose:

This education video discusses the importance of using helmets when riding to prevent injury. The video utilizes interviews of people who have been affected by a head injury, either their own or someone they know. These interviewees range from surgeons, to parents, profession trainers, and Olympic riders.

Activity:

1. Show this video during your helmet safety program or discussion.

Supplies:

- Every Time, Every Ride video.
 - Every extension office should have a copy available, however if it cannot be found, a copy can be purchased from Washington State 4-H Foundation at https://pubs.wsu.edu/ItemDetail.aspx?ProductID=15591&SeriesCode=&CategoryID=282&Keyword=