Direction: Follow the steps below to design a object to lure solution to a Pennsylvania invasive species an animal. problem, the Argrilus Planipennis~ (Emerald Ash Borer). The goal is to create a Emerald Ash Borer decoy and then design a trap involving the decoy

Step A. Brainstorm with your team about the physical traits of the Emerald Ash Borer.

A decoy is

device or

Step B. Now sketch a model of the Emerald Ash Borer.

to help stop the spread of E.A.B.'s!

Step C. Take your sketch and create your model decoy. You can use the following materials to design your decoy!

Materials:

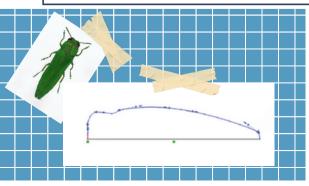
- Styrofoam peanuts
- Color markers
- Scissors
- Chenille sticks
- **Pants**

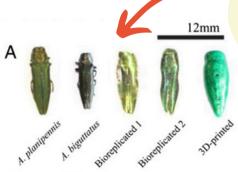
- Chenille sticks
- Pants
- Glitter Glue

മ **PART**

images by Domingue, M. J., Lakhtakia, A., Pulsifer, D. P., Hall, L. P., Badding, J. V., Bischof, J. L., & Baker, T C. (2014). Bioreplicated visual features of nanofabricated buprestid beetle decoys evoke stereotypical male mating flights. Proceedings of the National Academy of Sciences, 111(39), 14106-14111.

3	Step D. Collaborate with your team ways to trap a Emerald Ash Borer.		





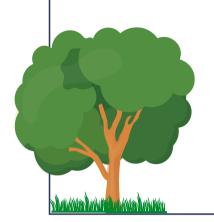
A team of research scientist at PSU have designed and tested many decoys like these ones to find the perfect model to test!











For notable signs of EAB feeding on an ash tree! Look for marks that these larvae pests leave as they exit the bark as an adult.

Be A Dete

Step F. Choose from the following materials, take your design and create your trap. Test your trap to make sure it will trap an Emerald Ash Borer!

Materials:

- Cardboard
- Color markers
- Scissors
- · Chenille sticks
- Paper cups
- Paper plates
- Toothpicks
- string
- **Step G:** After setting up the decoy and trap, observe what happens! Record your data below.

Day	# of E.A.B.	Observation/Notes









