# Family Field Trip Days: Instructions



Step 1: Watch "Invasive Species" Deep Sea Learning Videos with Georgia Aquarium (Found on the 'At Home Learning' tab of our website).

Step 2: Review the "**Invasive Species**" Fact Sheets.

Step 3: Visit Georgia Aquarium to complete the questions and activity sheets in this packet!

Step 4: Learn more about the invasive red lionfish from home on **Georgia Aquarium's website**.





### Gallery Scavenger Hunt: Invasive Invasion

Instructions: Explore Georgia Aquarium galleries and exhibits to find the answers to the questions below! here is a growing concern from European countries at *Homarus americanus* is becoming an invasive Atlantic. Scientists, though unsuccessful, attempt-

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There is a growing concern from European countries that *Homarus americanus* is becoming an invasive species with the potential to displace or wipe out through disease the local species, *Homarus gammarus*. What is the common name for *Homarus americanus*?

Animals aren't the only organisms that can be invasive. Seagrass common in the Red Sea has started to out compete Caribbean species. One primary consumer of seagrass has helped speed up the invasion, by grazing exclusively on the native species. What is this primary consumer found in Ocean Voyager?

HINT: The scientific name is *Chelonia mydas* 

Atlantic. Scientists, though unsuccessful, attempted to control the species through training local apex predators to prey upon lionfish. Which sharks in Sharks! Predators of the Deep, could have been involved?

This aquatic reptile can't survive in Georgia north of the fall line, but every now and then will make headlines when pulled from the Chattahoochee. This can be on account of the exotic pet trade. What is the scientific name for this animal?

### Gallery Scavenger Hunt: Invasive Invasion Cont.

**Instructions:** Explore Georgia Aquarium galleries and exhibits to find the answers to the questions below!

Insects are an important part of ecosystems, including aquatic ones. Two invasive insects to Georgia cause major damage to important crops. What are these two insects?

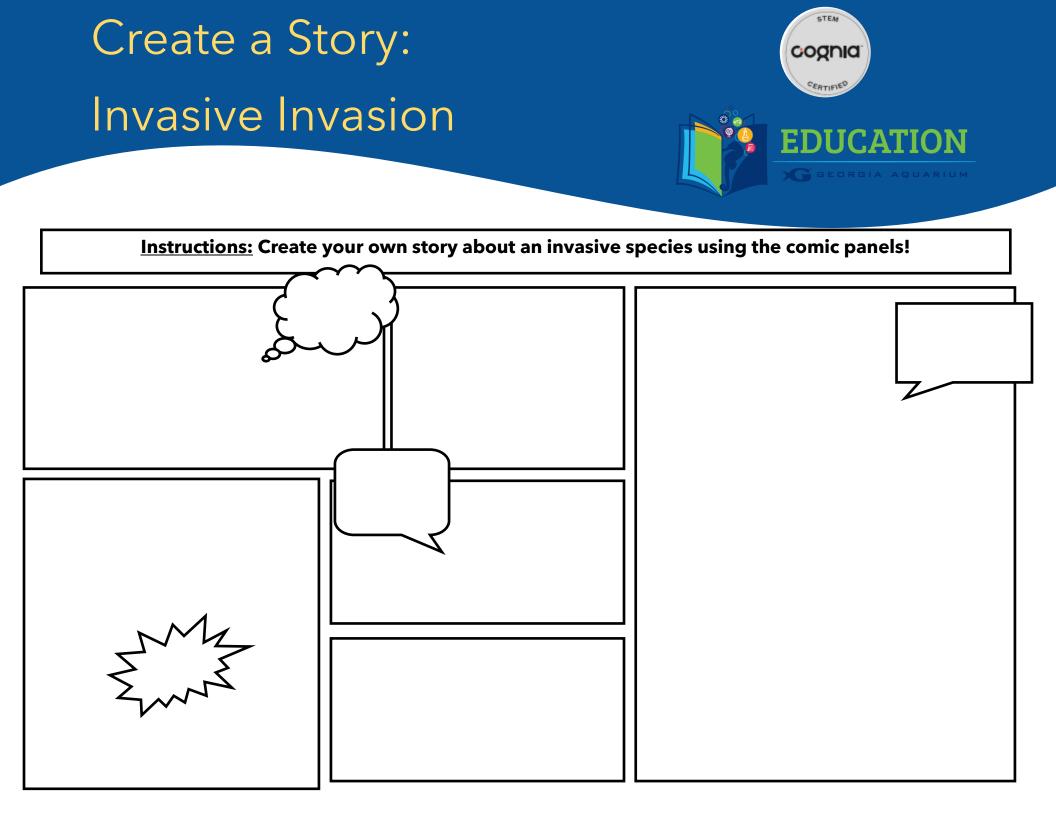
Ctenophores and Cnidarians have some of the most detrimental invasive species. Considered by some as one of the most invasive species is a Ctenophore nicknamed the sea walnut. This species caused the near collapse of Black Sea commercial fisheries an estimated economic loss of US\$1 billion. These species are spreading thanks to ballast waters, a practice where ships load water at one port for balance and stability and release another port. What is the cnidarian species located at the entrance of Georgia Aquarium? This invasive species does not have a symbiotic relationship with an algae called zooxanthellae as is typical for other related species. Instead, it is a heterotroph that extends its tentacle to capture its only source of energy, zooplankton. What is this species?

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#### The sea walnut, *Mnemi*opsis leidyi.

Image Courtesy of Smithsonian Ocean https://ocean.si.edu/ sites/default/files/styles/ photo\_full/ public/12797\_mnemiopsisleidyi.jpg? itok=Kd2T2w64



### Gallery Scavenger Hunt: Invasive Invasion **KEY**

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**Instructions:** Explore Georgia Aquarium galleries and exhibits to find the answers to the questions below!

There is a growing concern from European countries that *Homarus americanus* is becoming an invasive species with the potential to displace or wipe out through disease the local species, *Homarus Gammarus*. What is the common name for *Homarus americanus*? **American lobster** 

Animals aren't the only organisms that can be invasive. Seagrass common in the red sea has started to out compete Caribbean species. One primary consumer of seagrass has helped speed up the invasion, by grazing exclusively on the native species. What is this primary consumer found in Ocean Voyager?

#### **Green Sea Turtle**

HINT: The scientific name is Chelonia Mydas

Red lionfish are an invasive species in the western Atlantic. Scientists, though unsuccessful, attempted to control the species through training local apex predators to prey upon lionfish. Which sharks in Sharks! Predators of the Deep, could have been involved?

Tiger Shark, Great Hammerhead, and Sand Tiger

This aquatic reptile can't survive in Georgia north of the fall line, but every now and then will make headlines when pulled from the Chattahoochee. This can be on account of the exotic pet trade. What is the scientific name for this animal?

Alligator mississippiensis

## Gallery Scavenger Hunt: Invasive Invasion Cont. **KEY**



**Instructions:** Explore Georgia Aquarium galleries and exhibits to find the answers to the questions below!

Insects are an important part of ecosystems, including aquatic ones. Two invasive insects to Georgia cause major damage to important crops. What are these two insects? **Kudzu bugs and stinkbugs** 

Ctenophores and Cnidarians have some of the most detrimental invasive species. Considered by some as one of the most invasive species is a Ctenophore nicknamed the sea walnut. This species caused the near collapse of Black Sea commercial fisheries an estimated economic loss of US\$1 billion. These species are spreading thanks to ballast waters, a practice where ships load water at one port for balance and stability and release another port. What is the cnidarian species located at the entrance of Georgia Aquarium? **Moon jelly**  This invasive species does not have a symbiotic relationship with an algae called zooxanthellae as is typical for other related species. Instead, it is a heterotroph that extends its tentacle to capture its only source of energy, zooplankton. What is this species? **Orange cup coral** 



#### The sea walnut, *Mnemi*opsis leidyi.

Image Courtesy of Smithsonian Ocean https://ocean.si.edu/ sites/default/files/ styles/photo\_full/ public/12797\_mnemiopsi s-leidyi.jpg? itok=Kd2T2w64