Lionfish Invasion! is game developed to enhance your students learning experience while they study invasive species. Lionfish are one of the most aggressive aquatic invaders of the Atlantic Ocean, Gulf of Mexico and Caribbean Sea. Use the materials in this document to teach students about the adaptations, behaviors and other characteristics that make the lionfish a prime example of an invasive species.

Please print out the Lionfish Invasion! game board and refer to the full lesson plan, Using Lionfish to Teach About Invasive Species, which are available online at http://www.disl.org/educational-programs/professional-development-for-educators/teacher-resources/ in the Conferences and Seminars section.

Materials Included in this document

Rules and educational actions: (page 2)
Fold page in half on the dotted line. Insert filled stomach, fold corners on diagonal dotted lines to create an enclosed puppet and tape closed.

Lionfish cut-outs: (page 3)
Cut out stomach puppets on solid lines. Fold on the dotted line. Fill with stomach contents, fold over corners to make an enclosure and tape closed.

18 Cards (front and back print on pages 4-7)
Print two sided and cut out individual cards.

18 Cards (fold print on pages 8-10)
Print one sided, cut out on the solid lines and fold on the dotted lines.
Lionfish Invasion!
Rules and Educational Actions

- This game may be played with 2-4 players or 2-4 teams.
- Begin the game with 2 lionfish cut-outs on each player’s reef.
- Players wait on START to take their turn. Roll the die and count spaces to move clockwise around the board. Do not count start.
- Players win by reaching the WIN square only if they do not have lionfish on their reef. If they still have lionfish on their reef, they continue around the board again.
- Cards are placed in the center and drawn when players lands on the CARD square.
- If a card requires you to remove 1/2 of the fish on your reef and you have an odd number, round up. (5 fish on reef = remove 3) (1 fish=remove that fish)
- Hold on to cards that say “skip next baby boom” or “skip next release”. Players holding these cards do not receive lionfish the next time they land on a “Baby Boom” or “Release” square.
- Depending on the length of the game, cards may need to be shuffled and replaced in the center.
- Baby Boom: Lionfish mature quickly and release many eggs multiple times throughout the year. (Add 2 lionfish)
- Shark Attack/Grouper Gulp: In their native range lionfish do have a few predators including the grey reef shark. Large grouper have eaten lionfish. (Remove 1 lionfish)
- Invade: The movement of lionfish to new habitats. (Remove 1 of the lionfish from your reef to an opponent’s reef or move another players lionfish)
- Release: Accidental or intentional release of aquarium pets. (Add 1 lionfish)
- Research: Scientists studying lionfish increase ability to manage invasion. (Roll again)
- Rodeo/Bounty: Community-wide rodeos and offer prizes for the largest lionfish catches.
- Spearfishing: This popular sport is one of the only ways to catch lionfish.
- Fishing limits– shark and grouper: Two hopeful predators of lionfish
- Public Education: This is one weapon we have to prevent more releases.
- Pet shop: Aquarium trade regulations about keeping invasive species as pets.
- BBQ: The white flaky meat is delicious.
State lowers the limit on grouper catches.
Remove 1 lionfish from your reef.

State lowers the limit on shark catches.
Remove 1 lionfish from your reef.

Raise $ for a lionfish bounty.
Remove 1 lionfish from your reef.

Host a Lionfish BBQ!
Remove 1 lionfish from your reef.

Host a Lionfish Rodeo!
Remove all but 1 lionfish from your reef.

Convince local pet shop not to carry invasive species.
Skip next release.

Hold this card until you land on a "Release" square.

Lionfish cards: Print front & back (pages 4-7) Cut out each card along the dotted line.

Lionfish Invasion! game materials ~ Created by J. Latour ~ Dauphin Island Sea Lab ~ Discovery Hall Programs ~ 2017
page 4
Spear a lionfish on a diving trip.
Remove 1 lionfish from your reef.

Wild Card!
Remove 1 lionfish from your reef.

Teach the public about Lionfish.
Skip the next Release.
Hold this card until you land on a “Release” square.

Teach the public about Lionfish.
Skip the next Release.
Hold this card until you land on a “Release” square.

Research lionfish.
Skip next Baby Boom!
Hold this card until you land on a “Baby Boom!” square.

Research lionfish.
Skip next Baby Boom!
Hold this card until you land on a “Baby Boom!” square.
<table>
<thead>
<tr>
<th><strong>Spear a lionfish on a diving trip.</strong></th>
<th><strong>Wild Card!</strong></th>
<th><strong>Get stuck by a lionfish while diving.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Remove 1 Lionfish from your reef.</td>
<td>Remove 1 lionfish from your reef.</td>
<td>Loose your next turn.</td>
</tr>
<tr>
<td>Lionfish Invasion!</td>
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<td>Lionfish Invasion!</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>Hurricane!</td>
<td>Someone released an aquarium pet!</td>
<td>A large grouper visits your reef.</td>
</tr>
<tr>
<td>Trade reefs with the person to your right.</td>
<td>Add 1 lionfish to your reef.</td>
<td>Remove 1 Lionfish from your reef.</td>
</tr>
</tbody>
</table>
Spear a lionfish on a snorkeling trip.
Remove one lionfish.

Wild Card!
Remove one lionfish from your reef.

Get stuck by a lionfish while diving.
Loose the next turn.

Hurricane!
Trade reefs with the person to your right.

Someone dumped their aquarium pets!
Add a lionfish to your reef.

A large grouper visits your reef.
Remove one lionfish.
Spear a lionfish on a snorkeling trip. Remove one lionfish.

Wild Card! Remove one lionfish from your reef.

Teach the public about Lionfish. Skip the next Release.

Teach the public about Lionfish. Skip the next Release. Hold this card until you land on a “Release” square.

Conduct research on lionfish and the ecosystem. Skip next Baby Boom!

Conduct research on lionfish and the ecosystem. Skip next Baby Boom! Hold this card until you land on a “Baby Boom!” square.
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