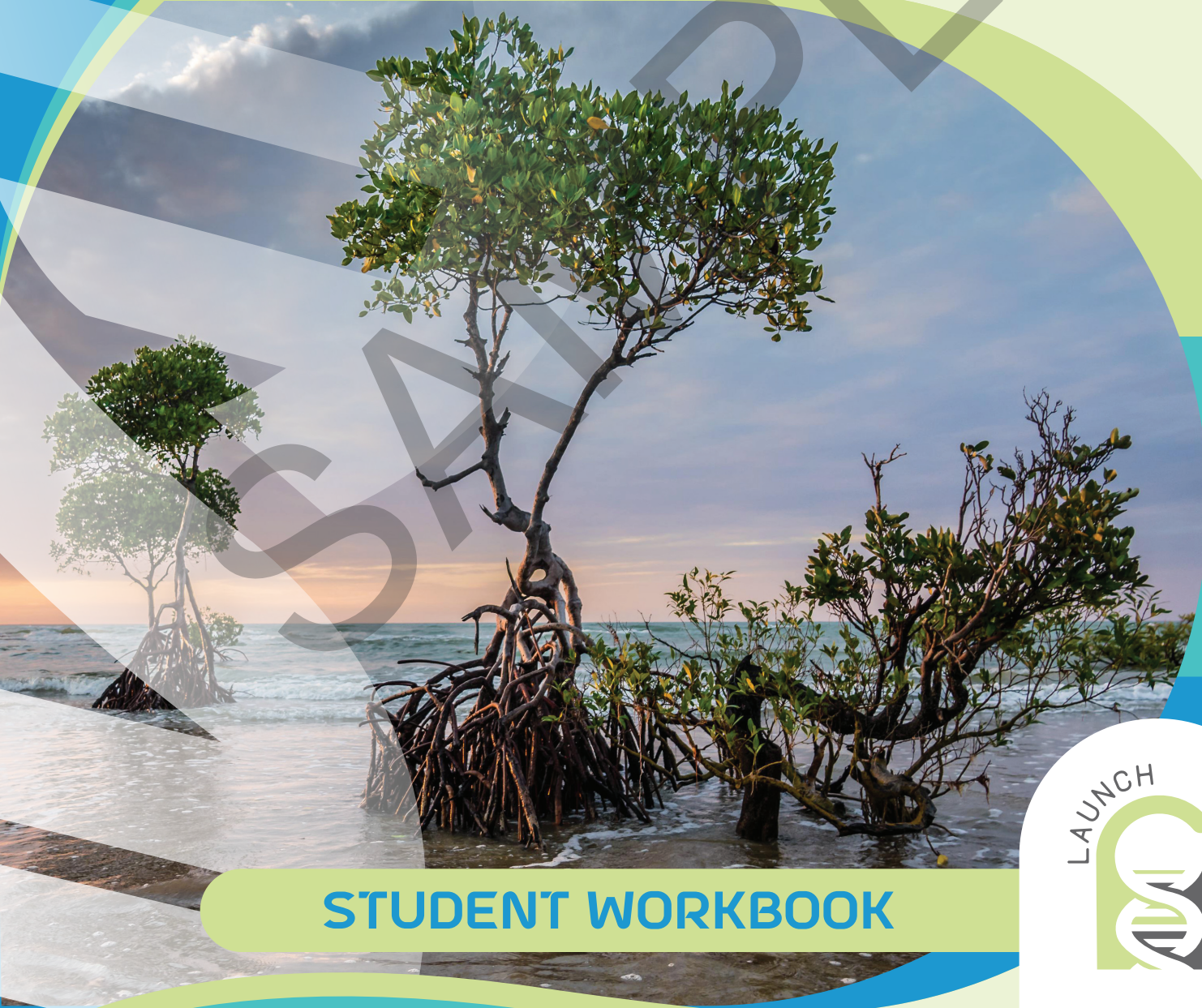


UNINTENDED CONSEQUENCES



STUDENT WORKBOOK



BEFORE AND AFTER

We know that studying for a test can lead to a better grade, or that touching a hot stove will cause pain. These consequences happen quickly after the action, but many consequences take years to show their full effects. In this activity, you will see a series of pictures and answer associated questions about action and consequence.

I SMALL CHANGES, BIG RESULTS

Mangroves



Before



During



After

? Do plants play a role in coastal ecosystem home destruction? Explain.

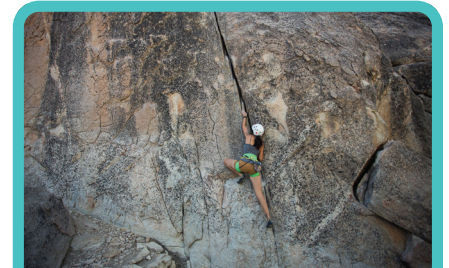
Bouldering



Before



During



After

? Could bouldering lead to fewer plants? Explain.

Snowball Effect

Scientists, health officials, and members of the public can work to test solutions to the impacts of invasive species.

DESIGN:

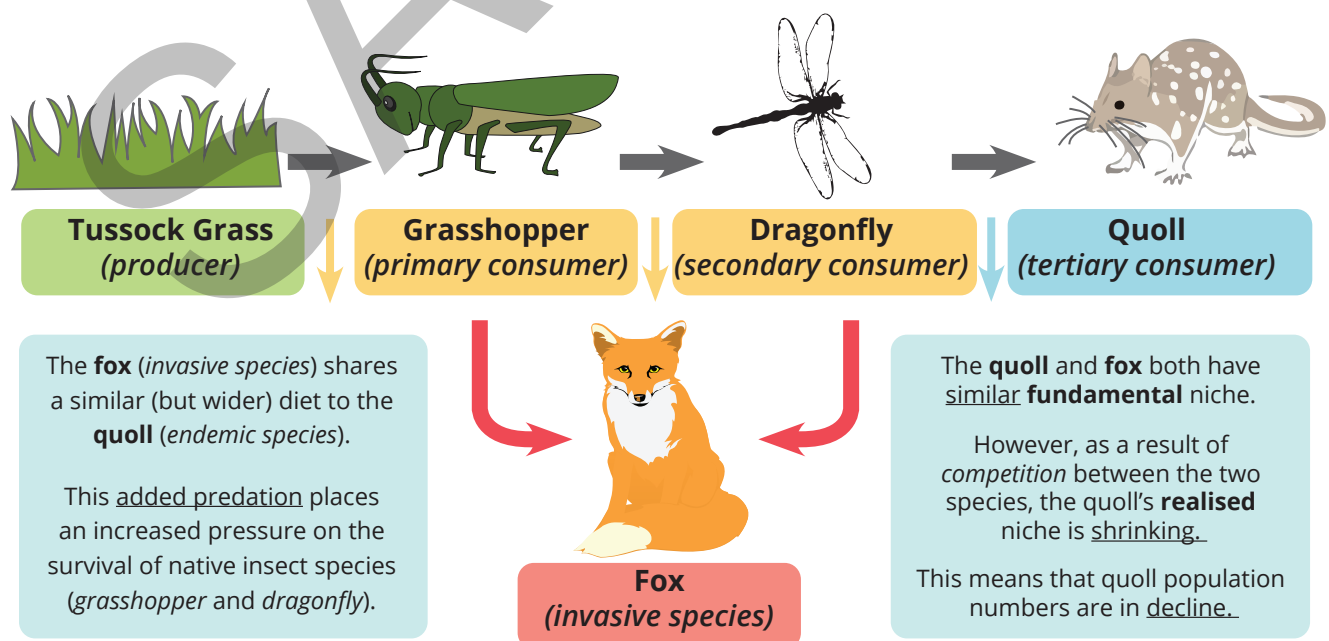
Design a possible solution to reduce the impact of giant hogweed.

Designing solutions is an important step in resolving the problems created by the presence of invasive species.

Solution 1

One solution is eliminating giant hogweed from non-native locations. The complete removal of an invasive species can seem like a beneficial solution, but there are aspects to consider based on how long the species has been in place. When an invasive species enters a non-native space, it will often time choke or push out a native species.

Each species in an ecosystem performs a specific function, known as a niche. All niches are important because species within an ecosystem rely on one another for food, shelter, etc. When a niche isn't filled, it can be at the detriment of the other native species.



DAY 3		
Cup	Average Height (in cm)	Evidence of Damage
1		
2		
3		
4		
5		
6		
7		
8		
9		

DAY 4		
Cup	Average Height (in cm)	Evidence of Damage
1		
2		
3		
4		
5		
6		
7		
8		
9		



REFLECT

? 1. Which plants grew best? Provide evidence to support your response.

? 2. Which plants grew worst? Provide evidence to support your response.

? 3. How well did your predictions match your results? Explain.

Note: Save your healthy plants, those that are green and not crushed, for the experiment in Activity 5.



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Kit	SU-UNCONS
Instructions	IN-UNCONSS
Revision Date	4/2022