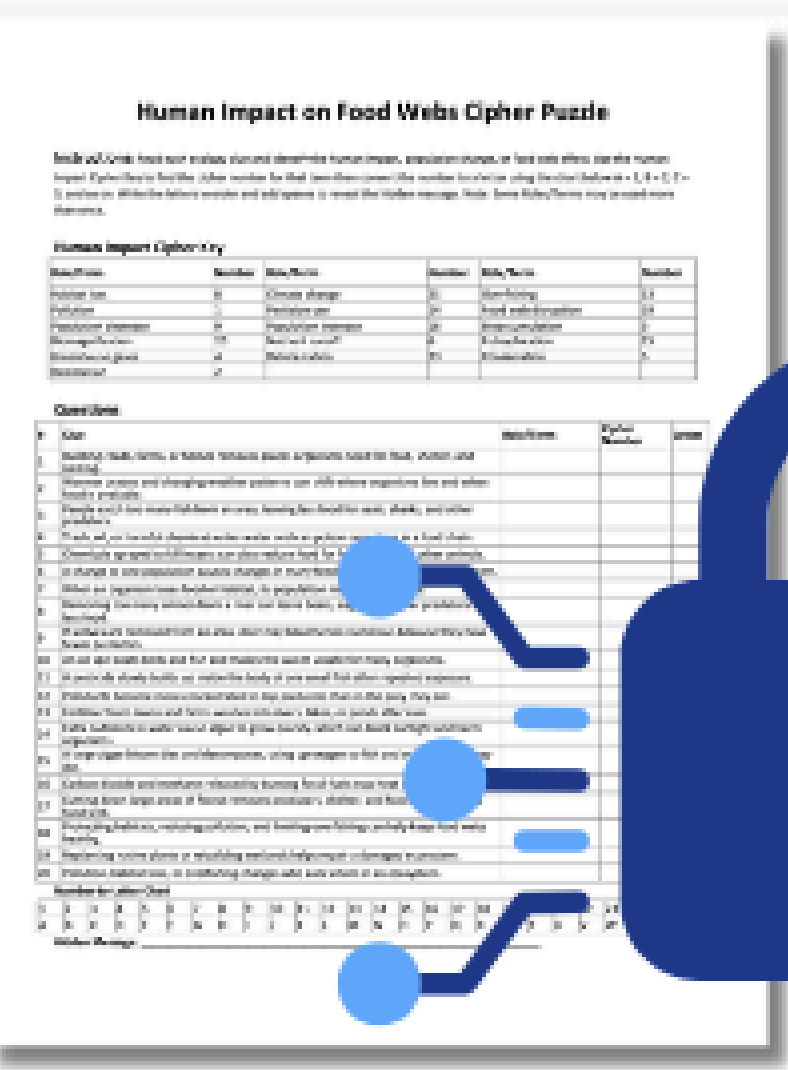


Human Impact on Food Webs Cipher Puzzle

- Students solve problems to discover a secret message
- NO PREP, NO MARKING, NO MATERIALS

Students use clues to answer questions and their answers reveal a hidden message.



Human Impact on Food Webs Cipher Puzzle

Instructions: Read each clue and determine human impact, ecosystem change, or food web effect. Use the Human Impact Cipher Key to find the letter for each clue. Write the letters in the grid below to reveal the hidden message.

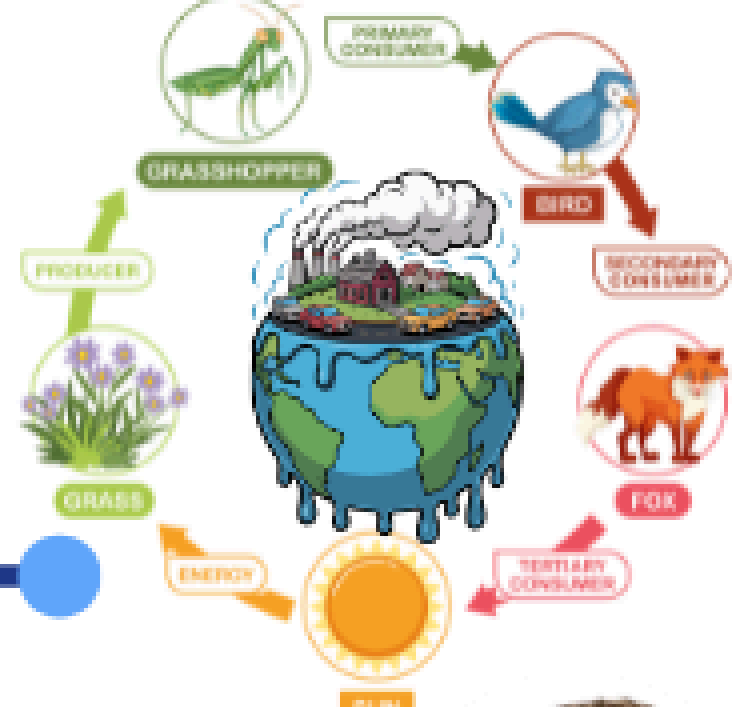
Human Impact Cipher Key

Role/Term	Number	Role/Term	Number	Role/Term	Number
Habitat loss	8	Climate change	21	Overfishing	13
Pollution	1	Pesticide use	14	Food web disruption	19
Population decrease	9	Population increase	16	Bioaccumulation	3
Biomagnification	20	Nutrient runoff	6	Eutrophication	15
Greenhouse gases	4	Deforestation	23	Conservation	5
Restoration	2				

Questions

#	Clue	Role/Term	Cipher Number	Letter
1	Building roads, farms, or homes removes places organisms need for food, shelter, and nesting.	Habitat loss	8	H
2	Warmer oceans and changing weather patterns can shift where organisms live and when food is available.	Climate change	21	U

Hidden Message: _____



Teach With Forgy

Human Impact Cipher Key

Role/Term	Number	Role/Term	Number	Role/Term	Number
Habitat loss	8	Climate change	21	Overfishing	13
Pollution	1	Pesticide use	14	Food web disruption	19
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Questions

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SCROLL
to take a look inside!

HOW THESE ACTIVITIES HELP YOU

- **Saves Prep Time** - Everything is pre-made, ready to go, and fully editable.
- **Provides Built-In Assessments** - The activity lets students self-assess and lets you quickly check for understanding.
- **Perfect for:** Review, Practice, Homework, and more!

MULTIPLE QUESTION TYPES THAT CHECK FOR UNDERSTANDING

Example

Human Impact Cipher Key

Role/Term	Number	Role/Term	Number	Role/Term	Number
Habitat loss	26	Climate change	25	Overfishing	13
Pollution	1	Pesticide use	14	Food web disruption	10
Population decrease	20	Population increase	16	Biodiversification	3
Waste accumulation	18	No threat itself	6	Shifts food chain	15
Greenhouse gases	4	Deforestation	23	Conservation	5
Restoration	2				

Full Teacher Answer Key

Questions

#	Clue	Role/Term	Cipher Number	Letter
1	Building roads, farms, or homes removes places organisms need for food, shelter, and nesting.	Habitat loss	8	H
2	Warmer oceans and changing weather patterns can shift where organisms live and when food is available.	Climate change	25	U



Human Impact on Food Webs Cipher Puzzle - Answer Key

#	Clue	Role/Term	Cipher Number	Letter
1	Building roads, farms, or homes removes places organisms need for food, shelter, and nesting.	Habitat loss	8	H
2	Warmer oceans and changing weather patterns can shift where organisms live and when food is available.	Climate change	25	U
3	People catch too many fish from an area, leaving the food for seals, sharks, and other predators.	Overfishing	13	M
4	Fertilizers and pesticides wash into water and can poison organisms in a food chain.	Pollution	1	P
5	Chemicals sprayed on all insects can also reduce food for frogs, birds, and other animals.	Pesticide use	14	N
6	A change in one population can cause changes in many feeding relationships in an ecosystem.	Food web disruption	10	S
7	When an organism dies, its body is broken down by other organisms.	Population decrease	20	D
8	Removing one member from a web can have large effects, including on predators and their food.	Overfishing	13	M
9	If animals are removed from an area, there may be more food for other organisms because there are fewer predators.	Population increase	16	I
10	As humans catch more and more fish, the water nearby for many organisms.	Overfishing	13	M
11	In pastures, cows and sheep graze on grass that is left after harvesting crops.	Biodiversification	3	B
12	Pollutants from cars and factories can cause problems in the atmosphere.	Greenhouse gases	4	G
13	Excess nutrients in water can lead to algae growth, which can block sunlight and harm organisms.	Waste accumulation	18	A
14	A forest after a fire can be a good thing, but it can also be a bad thing if the fire is too big.	Deforestation	23	F
15	Carbon dioxide and methane released by burning fossil fuels trap heat in the atmosphere.	Greenhouse gases	4	G
16	Using more large animals and human resources, including water and food, causes more waste.	Waste accumulation	18	A
17	Protecting habitats, reducing pollution, and limiting overfishing can help keep food webs healthy.	Conservation	5	C
18	Restoring natural areas or rebuilding ecosystems helps restore a balanced ecosystem.	Restoration	2	R
19	Pollution, habitat loss, or overfishing changes who eats whom in a food web.	Food web disruption	10	S

Students Use Clues to Answer Questions. Their Answers Reveal a Hidden Message.

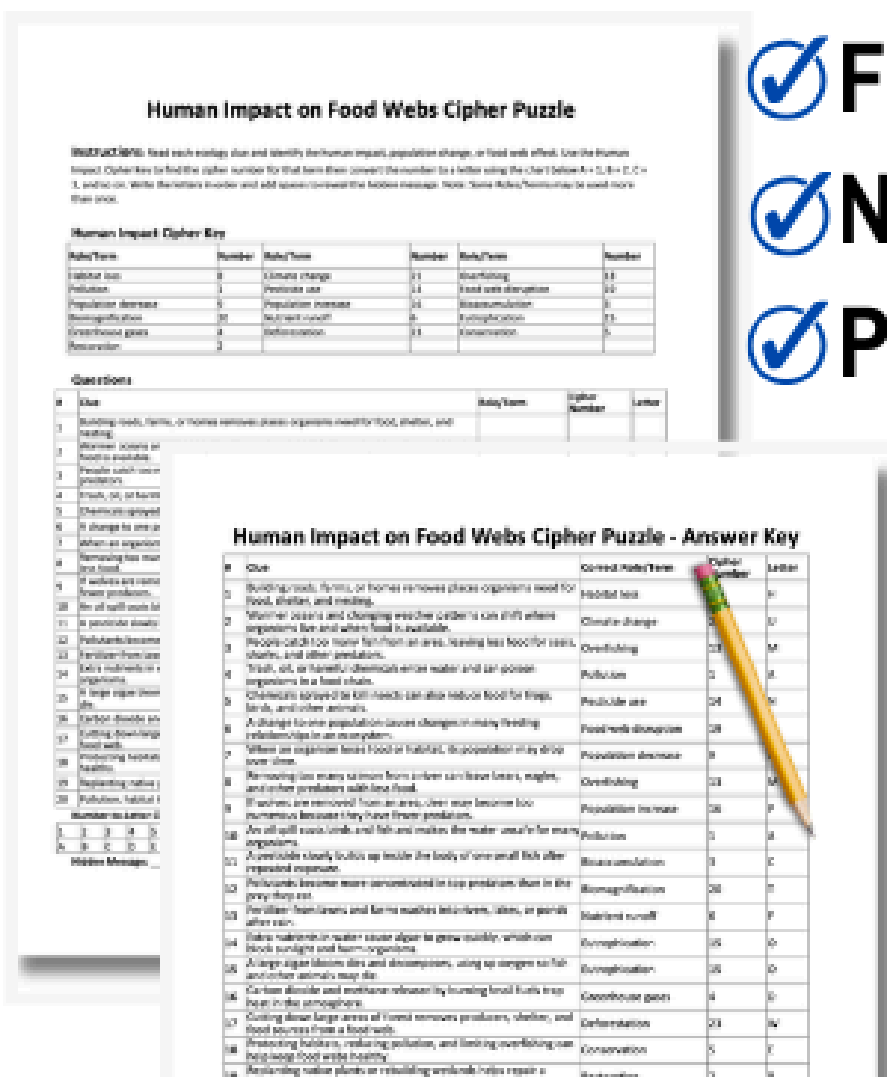
What Will Your Students Learn?

SIMPLY DOWNLOAD AND
GIVE TO YOUR STUDENTS

- ✓ Full Answer Key
- ✓ No Prep, Just Print
- ✓ Perfect for

- Review
- Practice
- Additional work for early finishers

- Overfishing
- Pollution & Habitat loss
- Pesticide use
- Climate change
- Population Changes
- Bioaccumulation
- Disrupted food chains
- Changes in predator-prey relationships
- Energy flow through ecosystems
- Ecosystem balance



NO PREP or Materials

- **Human Impact on Food Webs Cipher Puzzle Worksheet**

- A student-friendly activity with 20 clues focused on how human actions affect food chains, food webs, and energy flow in ecosystems.

- **Clear Instructions**

- Students read each clue, identify the correct human impact or food web effect, use the cipher key to find the number, and decode a hidden message.

- **Reinforces:**

- Overfishing and food web disruption
- Pollution and ecosystem health
- Habitat loss and population changes
- Pesticide use and bioaccumulation
- Climate change impacts on ecosystems
- Predator-prey relationships
- Food chains, food webs, and energy flow

- **Includes answer key and number-to-letter conversions**

- **No-Prep Resource**

- Ready to print or assign digitally for review, practice, early finishers, stations, homework, or sub plans.

What You Get

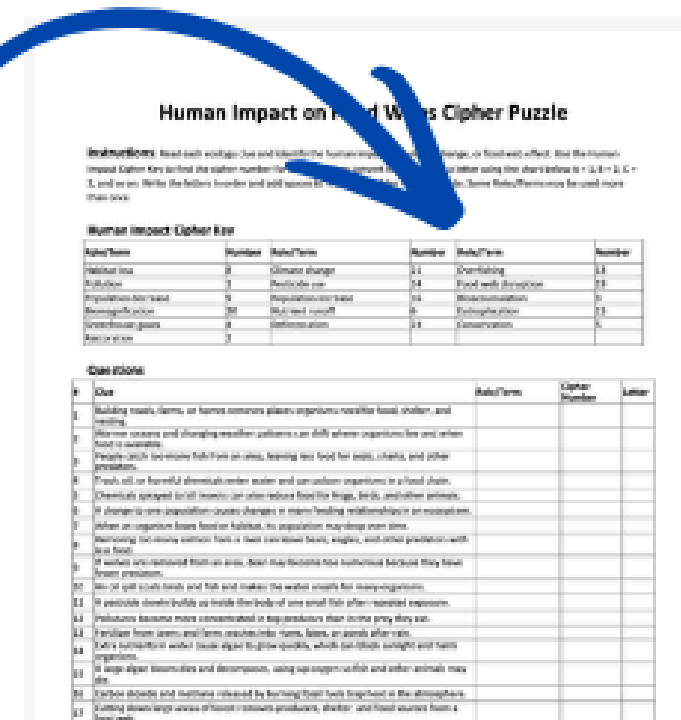
Students Use Their Answers to Reveal a Hidden Message

1. For each clue, write the answer in the 'Answer' column.

2. Identify the letter to be extracted using the "Letter position" column.

3. Write the letter in the 'Letter extracted from Answer' column.

4. Write your letters in order below the table to reveal the hidden message.



Human Impact on Food Webs Cipher Puzzle

Instructions: Read each clue and identify the human impact or food web effect. Use the human impact cipher key to find the letter number. Write the letter in the 'Answer' column. Use the 'Letter position' column to identify the letter to be extracted. Write the letter in the 'Letter extracted from Answer' column. Write the letters in order below the table to reveal the hidden message.

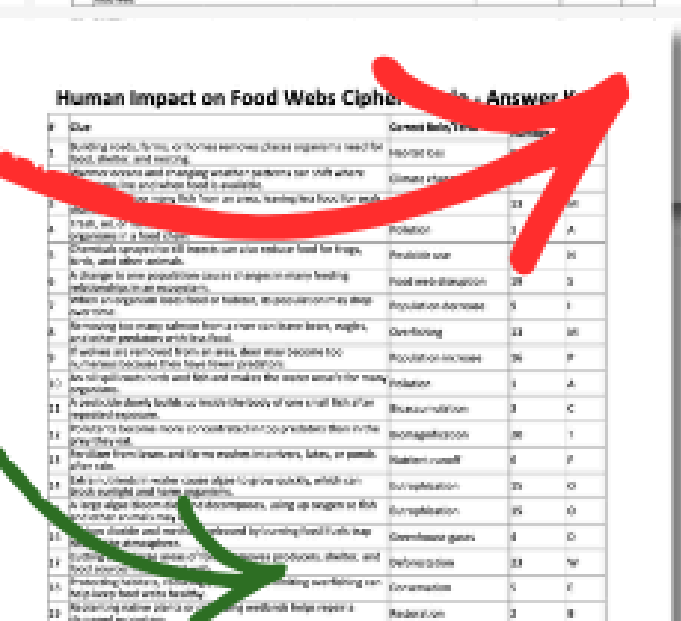
Human Impact Cipher Key

Human Impact	Number	Food Web Effect	Number
Habitat loss	1	Overfishing	13
Pollution	2	Food web disruption	14
Climate change	3	Population decrease	15
Overfishing	4	Overfishing	16
Food web disruption	5	Overfishing	17
Population decrease	6	Overfishing	18
Overfishing	7	Overfishing	19
Food web disruption	8	Overfishing	20
Population decrease	9	Overfishing	21
Overfishing	10	Overfishing	22
Food web disruption	11	Overfishing	23
Population decrease	12	Overfishing	24

Clue 1: Building roads, farms, or homes removes places organisms need for food, shelter, and nesting.

Letter position: 1

Answer:



Human Impact on Food Webs Cipher Puzzle - Answer Key

Clue	Human Impact	Letter position	Letter extracted from Answer
1. Building roads, farms, or homes removes places organisms need for food, shelter, and nesting.	Habitat loss	1	H
2. Pollution enters ecosystems and can harm organisms.	Pollution	2	P
3. Climate change is a long-term change in the average weather conditions over time.	Climate change	3	C
4. Overfishing is the removal of too many fish from a body of water.	Overfishing	4	O
5. Food web disruption is a change in the flow of energy through an ecosystem.	Food web disruption	5	F
6. Population decrease is a reduction in the number of individuals in a population.	Population decrease	6	P
7. Overfishing is the removal of too many fish from a body of water.	Overfishing	7	O
8. Food web disruption is a change in the flow of energy through an ecosystem.	Food web disruption	8	F
9. Population decrease is a reduction in the number of individuals in a population.	Population decrease	9	P
10. Overfishing is the removal of too many fish from a body of water.	Overfishing	10	O
11. Food web disruption is a change in the flow of energy through an ecosystem.	Food web disruption	11	F
12. Population decrease is a reduction in the number of individuals in a population.	Population decrease	12	P
13. Overfishing is the removal of too many fish from a body of water.	Overfishing	13	O
14. Food web disruption is a change in the flow of energy through an ecosystem.	Food web disruption	14	F
15. Population decrease is a reduction in the number of individuals in a population.	Population decrease	15	P
16. Overfishing is the removal of too many fish from a body of water.	Overfishing	16	O
17. Food web disruption is a change in the flow of energy through an ecosystem.	Food web disruption	17	F
18. Population decrease is a reduction in the number of individuals in a population.	Population decrease	18	P
19. Overfishing is the removal of too many fish from a body of water.	Overfishing	19	O
20. Food web disruption is a change in the flow of energy through an ecosystem.	Food web disruption	20	F
21. Population decrease is a reduction in the number of individuals in a population.	Population decrease	21	P
22. Overfishing is the removal of too many fish from a body of water.	Overfishing	22	O
23. Food web disruption is a change in the flow of energy through an ecosystem.	Food web disruption	23	F
24. Population decrease is a reduction in the number of individuals in a population.	Population decrease	24	P

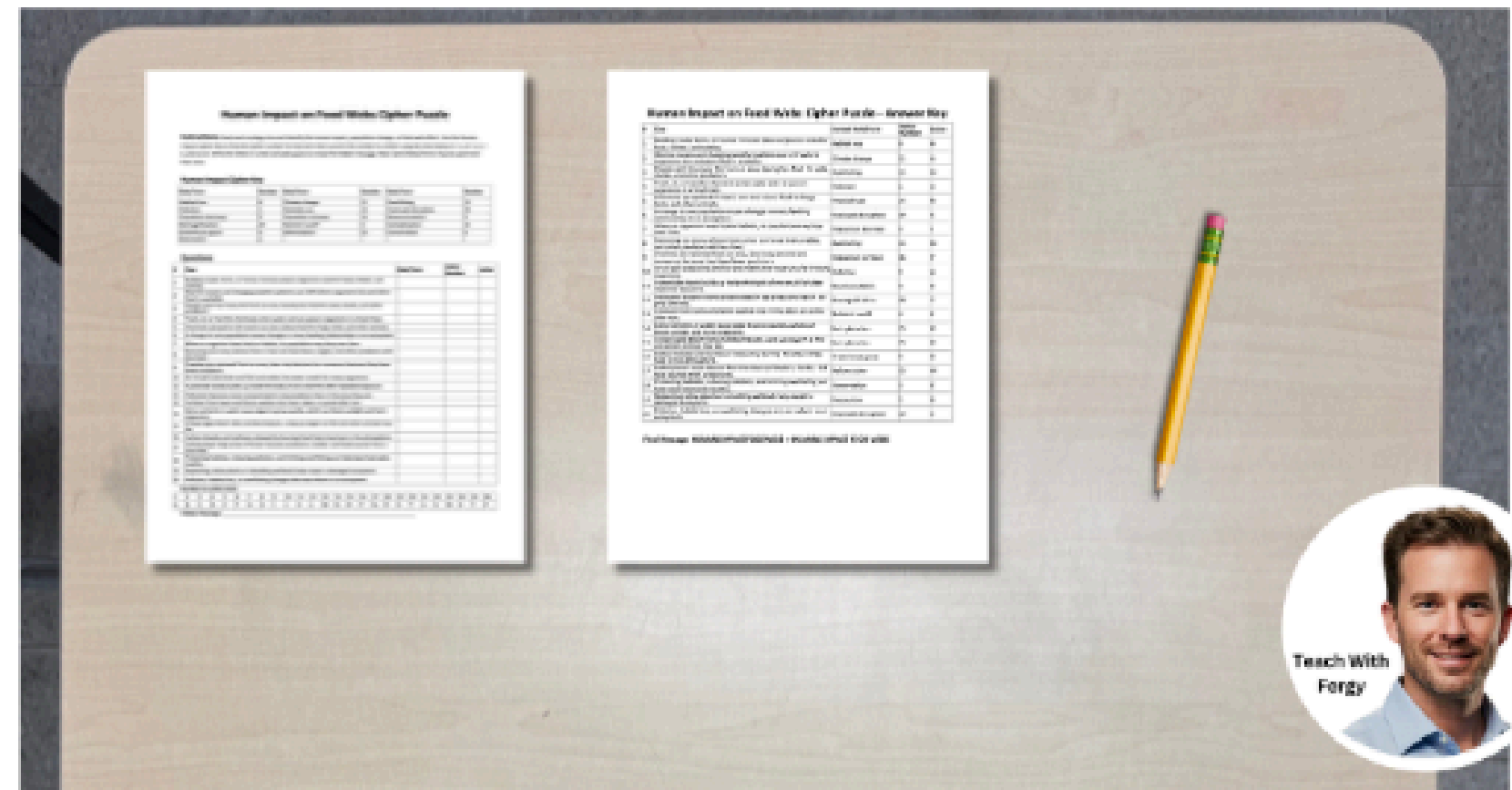
Your Activity

- Is a fun and interactive way to reinforce concepts and study
- **DIGITAL** and **PRINT** ready
- **FULLY EDITABLE**
- Complete Answer Key



Human Impact on Food Webs Cipher Puzzle

- Students solve problems to discover a secret message
- **NO PREP, NO MARKING, NO MATERIALS**



NO PREP, MATERIALS, OR MARKING

Thanks
**for your interest
in this resource!**

I am a real person and if
you have any questions,
suggestions, or concerns,
please reach out.



devon@teachwithfergy.com

TWF

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*Let's
Connect!*

