# Factor a Greatest Common Factor 

(CF)Scavenger Hunt Game

# Factoring a Greatest Common Factor (GCF) Scavenger Hunt Game 

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## Materials Included

- Directions
- Teacher's Key
- Student Worksheet
- Scavenger Hunt Problems


## Teacher Preparation

1. Print teacher's key and student worksheet (pages 4-6).
2. Make copies of the student worksheet for every student in your class.
3. Print the scavenger hunt problems (pages 7-38). The scavenger hunt problems must be printed double-sided (page 7 is printed on the back of page 8, etc.). You may have to manually print on both sides or you may have to use a duplex setting on the printer.
4. Fold the scavenger hunt problems on the dotted line.

5. Tape the scavenger hunt problems around the classroom making sure that students are able to reach them.

## Getting Students Started

1. Pass out the student worksheets.
2. The first few times I do a scavenger hunt with a class I work through one scavenger hunt problem with the class. If possible, project the student worksheet on the SMART Board or document camera.
3. Students will start at a scavenger hunt problem by writing down the vocabulary word on the outside flap.
4. Students will then open the flap and write down the problem on the inside.
5. Students will find the answer to the problem on their worksheet.
6. Students will then search for the answer on the bottom of another scavenger hunt problem around the classroom. Students will write down the vocabulary word once they've found it and repeat the process.

7. Students will know that they are finished when they loop back around to the scavenger hunt problem they started with.

Example Student Worksheet:


I hope that you and your students enjoy the scavenger hunt game. If you ever have any questions, please let me know. I am always looking for ways to improve so please leave your feedback and rating. Thank you!

## Scavenger Hunt Teacher Key

Monomial leads to Quadratic
Quadratic leads to Degree
Degree leads to Polynomial
Polynomial leads to GCF
GCF leads to Binomial
Binomial leads to Cubic
Cubic leads to Linear
Linear leads to Trinomial
Trinomial leads to Coefficient
Coefficient leads to Constant
Constant leads to Quartic
Quartic leads to Standard Form
Standard Form leads to Factor
Factor leads to Term
Term leads to Quintic
Quintic leads to Monomial (go to top of page)

Students will be starting in different places for the scavenger hunt. To use this key, you must find where the student started and go from there.

Scavenger Hunt
Student Worksheet

1. $\qquad$ leads to $\qquad$ 2. $\qquad$ leads to $\qquad$
2. $\qquad$ leads to $\qquad$ 4. $\qquad$ leads to $\qquad$
3. $\qquad$ leads to $\qquad$ 6. $\qquad$ leads to $\qquad$
4. 

leads to $\qquad$ 8. $\qquad$ leads to
9. $\qquad$ leads to $\qquad$ 10. $\qquad$ leads to $\qquad$
11. $\qquad$ leads to $\qquad$ 12. $\qquad$ leads to $\qquad$
13. $\qquad$ leads to $\qquad$ 14. $\qquad$ leads to $\qquad$
15. $\qquad$ leads to $\qquad$ 16. $\qquad$ leads to $\qquad$

## 1014แOUOW

## Factor the GCF.

$$
10 x^{3}-3 x
$$

$2 x^{2} y\left(1+2 x^{2}+3 x^{4}\right)$

## งทฺш.ィррпठ

## Factor the GCF.

$$
14 x^{3}+7 x+7 x^{2}
$$

$$
x\left(10 x^{2}-3\right)
$$

## әә.ぇбда

## Factor the GCF.

$$
36 x+18 x^{2}+3
$$

$$
7 x\left(2 x^{2}+1+x\right)
$$

## 1р1̣uоик1od

## Factor the GCF.

$$
-15 x^{2}+7 x
$$

$$
3\left(12 x+6 x^{2}+1\right)
$$

## リフワ

# Factor the GCF. 

 $9 x^{2}+x$$$
x(-15 x+7)
$$

## 1pḷuoupg

Factor the GCF. $4 x^{3}+6 x^{2}+10 x$
$x(9 x+1)$

## 21qn〕

## Factor the GCF.

## $3 x^{2} y-3 x^{2} y^{6}$

$$
2 x\left(2 x^{2}+3 x+5\right)
$$

## •Dวu!̣

Factor the GCF.

$$
3 x^{2} y-9 x y^{4}
$$



## 101ุแOu!̣.L

# Factor the GCF. 

$40 x^{3}+5 x^{2}+15 x$

$$
3 x y\left(x-3 y^{3}\right)
$$

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Factor the GCF.

$$
14 x^{3} y^{2}-21 x^{2} y^{3}
$$

$5 x\left(8 x^{2}+x+3\right)$

## 7uplsuoj

Factor the GCF.

$$
9 y+5 y^{2}
$$



## งทุ.ฮอกठ

Factor the GCF.
$2 x^{2}-4 x+8 y$
$y(9+5 y)$

## Uulot

## р.ヵрй1S

Factor the GCF.
$x^{3}+x y+5 x^{2}$

$$
2\left(x^{2}-2 x+4 y\right)
$$

## $\operatorname{loq30}_{H}$

## Factor the GCF.

$$
5 x^{2}-5 x
$$

## แıコ」

## Factor the GCF.

$$
16 x^{3}-12 x+6
$$



## งทฺนนฺกถ

## Factor the GCF.

$2 x^{2} y+4 x^{4} y+6 x^{6} y$


