

# Significant Figures

## MYSTERY MATCH Activity

### Who Killed Mr. Jack Pott?

Name \_\_\_\_\_ Date \_\_\_\_\_

Significant Figures **MYSTERY MATCH** Activity

**Who Killed Mr. Jack Pott?**

Mr. Jack Pott was found dead in his mansion. A butler is nearby, because he was surrounded by friends and family. Who could have done it? **Where** and **how** was it done? **What** could have been used to kill him? If you can, use your rules and complete the significant figure problems!

**WHO?**

☐ Miss Mint  
☐ Colonel Cinnamon  
☐ Mr. Arty Fischel  
☐ Mrs. Holly Wood  
☐ Professor Plum  
☐ Mrs. Anita Bathe

**WHAT?**

☐ Eggshells  
☐ Poisoned omelet  
☐ Butter knife  
☐ Acidic orange juice  
☐ Toxic toast  
☐ Scalding coffee

**WHERE?**

☐ Bathroom  
☐ Dining room  
☐ Hall  
☐ Kitchen  
☐ Sun room

**WHY?**

☐ Money  
☐ Revenge  
☐ Love  
☐ Power  
☐ Self-defense

1.  $2.770 + 124$     11.  $54 \times 3.09$     21.  $290 \times 120.0$   
2.  $61.000 \times 310$     12.  $300 \times 6.78$     22.  $35 / 30$   
3.  $2,300 / 4010$     13.  $52 - 3.001$     23.  $117 \times 70$   
4.  $9471 - 458.02$     14.  $4.0 \times 2.345$     24.  $90.0 / 99.27$   
5.  $110 \times 3.42$     15.  $27 + 155.2$     25.  $0.0100 \times 0.210$   
6.  $365 + 42.67$     16.  $1822 \times 34.00$     26.  $4.25 \times 0.120$   
7.  $908 \times 800$     17.  $120 - 321$     27.  $51 / 0.005990$   
8.  $1425 + 67103$     18.  $870 \times 6$     28.  $19 \times 0.03100$   
9.  $300 \times 3.789$     19.  $900 \times 4.7$     29.  $790 / 23$   
10.  $1310 \times 970$     20.  $423.00 - 128.9$     30.  $0.340 + 0.002499$

It was (WHO)    What a (WHAT)    In the (WHERE)    For (WHY)

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**SOLUTIONS** for Eliminating Suspects, Tools, Locations, and Motives

Colonel Cinnamon: 520	Hall: 300	Miss Mint: 254
Professor Plum: 235	Eggshells: 50	Mrs. Anita Bathe: 6500
Hall: 200,000	Colonel Cinnamon: 512	Kitchen: 0.25
Miss Mint: 52	Mrs. Holly Wood: 873,666	Revenge: 0.002
Mrs. Holly Wood: 508	Scalding coffee: 286,000	Mrs. Holly Wood: 1
Eggshells: 85	Butter knife: 83	Dining room: 0.25
Toxic toast: 290,000	Professor Plum: 852	Butter knife: 0.002
Miss Mint: 521	Toxic toast: 25	Eggshells: 0.205
Professor Plum: 8	Sun room: 380	Scalding coffee: 286,000
Kitchen: 380	Revenge: 380	Sun room: 380
Acidic orange juice: 2,300	Scalding coffee: 0.002	Professor Plum: 852
Eggshells: 100	Bathroom: 0.002	Butter knife: 83
Sun room: 86	Low: 1000	Butter knife: 83
Dining room: 867	Power: 82	Butter knife: 83
Poisoned omelet: 1000	Toxic toast: 100	Butter knife: 83
Mrs. Anita Bathe: 254	Colonel Cinnamon: 825	Butter knife: 83
Acidic orange juice: 3100	Butter knife: 6478	Butter knife: 83
Toxic toast: 25	Scalding coffee: 380	Dining room: 0.25
Dining room: 2,021	Self-defense: 50	Acidic orange juice: 2,300
Toxic toast: 25,000	Power: 2,020	Toxic toast: 87
Mr. Arty Fischel: 6,000	Acidic orange juice: 3,200	Low: 0.8
Dining room: 805	Professor Plum: 645	Hall: 8
Scalding coffee: 220	Power: 835	Revenge: 0.002
Sun room: 6,000	Money: 3,000	Miss Mint: 650
Mrs. Anita Bathe: 85	Bathroom: 22	Toxic toast: 30
Toxic toast: 5,000	Mrs. Holly Wood: 86	
Dining room: 500	Dining room: 5,250	
Professor Plum: 30,000	Hall: 85	
Power: 30	Low: 500	

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### Significant Figures **MYSTERY MATCH** Activity

Dear old Mr. Jack Pott had invited a few of his closest colleagues over for a breakfast feast, on a stormy, summer morning. The following guests attended the party:

- Miss Mint—A classy lady. She is said to be handy, dandy, and highly attractive.
- Colonel Cinnamon—A former military man. He is dignified, gallant, and an extremely dangerous guinea pig hunter.
- Mr. Arty Fischel—A deceitful conman. He is an amateur with a shady past that disguises himself as a wealthy investor.
- Mrs. Holly Wood—A traditional woman. She is elderly, attractive, and kind, maintaining elegance at all times. But behind this front, she is quite greedy.
- Professor Plum—A respectable professor. He is a middle-aged man who always can be found wearing a bow tie and hat. He uses his intellect and charisma to distract people from his tricky side.
- Mrs. Anita Bathe—Mr. Jack Pott's messy maid. Playing the role of his faithful servant for many years, she not-so-secretly earns for Mr. Jack Pott's wealth and riches.

Suddenly, during the middle of the egg omelet course, there was a burst of lightning and a boom of thunder. As the guests were startled from their seats, the electricity went out. In the dark, there was much confusion. But thankfully, the power came back on within minutes. Upon the illumination of the room, the guests noticed Mr. Jack Pott was gone! They hurriedly filed out of the room in search of him, only to be startled to discover his dead body lying in the middle of the room. With what? Where? And Why? To solve this mystery, you must understand of significant figure rules.

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# Significant Figures **MYSTERY MATCH** Activity

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# Significant Figures **MYSTERY MATCH** Activity

Dear old Mr. Jack Pott had invited a few of his closest friends and colleagues over for a breakfast feast, on a stormy, summer morning. The following guests attended the party:

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Name \_\_\_\_\_

Date \_\_\_\_\_

Significant Figures **MYSTERY MATCH** Activity

# Who Killed Mr. Jack Pott?

Mr. Jack Pott was found dead in his mansion. A shock to many, because he was surrounded by friends and family. **Who** could have done it? **Where** and **Why** was it done? **What** could have been used to kill him? To find out, use your rules and complete the **significant figure** problems!

**Directions:** Solve the problems below and report your answer to the appropriate number of significant figures. Match your answers to the solutions for *eliminating* suspects, tools, locations, and motives. Eliminate all but one possibility to solve the mystery.

WHO?	
<input type="checkbox"/> Miss Mint	
<input type="checkbox"/> Colonel Cinnamon	
<input type="checkbox"/> Mr. Arty Fischel	
<input type="checkbox"/> Mrs. Holly Wood	
<input type="checkbox"/> Professor Plum	
<input type="checkbox"/> Mrs. Anita Bathe	
WHAT?	
<input type="checkbox"/> Eggshell	
<input type="checkbox"/> Poisoned omelet	
<input type="checkbox"/> Butter knife	
<input type="checkbox"/> Acidic orange juice	
<input type="checkbox"/> Toxic toast	
<input type="checkbox"/> Scalding coffee	
WHERE?	
<input type="checkbox"/> Bathroom	
<input type="checkbox"/> Dining room	
<input type="checkbox"/> Hall	
<input type="checkbox"/> Kitchen	
<input type="checkbox"/> Sun room	
WHY?	
<input type="checkbox"/> Money	
<input type="checkbox"/> Revenge	
<input type="checkbox"/> Love	
<input type="checkbox"/> Power	
<input type="checkbox"/> Self-defense	

  

1. $2.770 + 12.4$	11. $54 \times 3.09$	21. $290 \times 120.0$
2. $61.000 \times 3.10$	12. $300 \times 6.78$	22. $35 / 30$
3. $2,300 / 4.010$	13. $5.2 - 3.001$	23. $1.17 \times 70$
4. $947.1 - 458.02$	14. $4.0 \times 2,345$	24. $90.0 / 99.27$
5. $110 \times 3.42$	15. $27 + 155.2$	25. $0.0100 \times 0.210$
6. $365 + 42.67$	16. $182.2 \times 34.00$	26. $4.25 \times 0.120$
7. $908 \times 800$	17. $120 - 32.1$	27. $51 / 0.005990$
8. $14.25 + 67.103$	18. $87.0 \times 6$	28. $19 \times 0.03100$
9. $300 \times 3.7891$	19. $900 \times 4.7$	29. $790 / 23$
10. $13.10 \times 970$	20. $423.00 - 128.9$	30. $0.340 + 0.002499$
It was (WHO)	With a (WHAT)	In the (WHERE)
		For (WHY)

# SOLUTIONS for Eliminating Suspects, Tools, Locations, and Motives

Colonel Cinnamon: <u>570</u>	Hall: <u>370</u>	Miss Mint: <u>34.3</u>
Professor Plum: <u>376</u>	Eggshell: <u>410</u>	Mrs. Anita Bathe: <u>8,500</u>
Hall: <u>700,000</u>	Colonel Cinnamon: <u>15.17</u>	Kitchen: <u>0.342</u>
Miss Mint: <u>15.2</u>	Mrs. Hollywood: <u>573.566</u>	Revenge: <u>0.5100</u>
Mrs. Holly Wood: <u>408</u>	Scalding coffee: <u>726,000</u>	Mrs. Holly Wood: <u>!</u>
Eggshell: <u>189.1</u>	Butter knife: <u>189</u>	Dining room: <u>0.34</u>
Toxic toast: <u>730,000</u>	Professor Plum: <u>182.2</u>	Butter knife: <u>0.907</u>
Miss Mint: <u>574</u>	Toxic Toast: <u>190</u>	Eggshell: <u>0.3425</u>
Professor Plum: <u>15</u>	Sun room: <u>489.1</u>	Scalding coffee: <u>0.59</u>
Kitchen: <u>489</u>	Revenge: <u>380</u>	Sun room: <u>0.0021</u>
Acidic orange juice: <u>12,700</u>	Scalding coffee: <u>13,000</u>	Professor Plum: <u>1.2</u>
Eggshell: <u>170</u>	Bathroom: <u>10,000</u>	Revenge: <u>34</u>
Sun room: <u>166</u>	Love: <u>1,000</u>	Dining room: <u>0.002</u>
Dining room: <u>1,137</u>	Power: <u>167</u>	Power: <u>0.00210</u>
Poisoned omelet: <u>4,000</u>	Toxic toast: <u>1,100</u>	Butter knife: <u>0.6</u>
Mrs. Anita Bathe: <u>294.1</u>	Colonel Cinnamon: <u>8,514</u>	Miss Mint: <u>80</u>
Acidic orange juice: <u>9,400</u>	Butter knife: <u>6,194.8</u>	Dining room: <u>0.5890</u>
Toxic toast: <u>294</u>	Scalding coffee: <u>9,380</u>	Acidic orange juice: <u>0.91</u>
Dining room: <u>2,034</u>	Self-defense: <u>522</u>	Toxic toast: <u>1.17</u>
Toxic toast: <u>34,800</u>	Power: <u>2,030</u>	Love: <u>0.51</u>
Mr. Arty Fischel: <u>6,200</u>	Acidic orange juice: <u>4,200</u>	Hall: <u>81</u>
Dining room: <u>87.9</u>	Professor Plum: <u>6,195</u>	Revenge: <u>0.059</u>
Scalding coffee: <u>2.20</u>	Power: <u>81.35</u>	Miss Mint: <u>8,510</u>
Sun room: <u>6,000</u>	Money: <u>2,000</u>	Toxic toast: <u>30</u>
Mrs. Anita Bathe: <u>182</u>	Bathroom: <u>2.2</u>	Poisoned omelet: <u>0.510</u>
Toxic toast: <u>9,000</u>	Mrs. Holly Wood: <u>180</u>	Butter knife: <u>82</u>
Dining room: <u>520</u>	Dining room: <u>4,230</u>	Self-defense: <u>290</u>
Professor Plum: <u>30,000</u>	Hall: <u>88</u>	Acidic orange juice: <u>35,000</u>
Power: <u>90</u>	Love: <u>500</u>	Kitchen: <u>0.0907</u>

570

Colonel Cinnamon

376

Professor Plum

700,000

Hall

15.2

Miss Mint

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Mrs. Holly Wood

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Eggshell

730,000

Toxic toast

574

Miss Mint

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Professor Plum

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Kitchen



12,700

Acidic orange juice

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Eggshell

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Sun room

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Dining room

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Poisoned omelet

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Mrs. Anita Bathe

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Acidic orange juice

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Toxic toast

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Dining room

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Toxic toast

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Mr. Artey Fischel

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Dining room

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Scalding coffee

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Sun room



182

Mrs. Anita Bathe

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Toxic toast

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Dining room

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Professor Plum

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Power

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Colonel Cinnamon

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Revenge

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Colonel Cinnamon

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Scalding coffee

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Self-defense

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Power

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Acidic orange juice

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Professor Plum

58.18

Power

2,000

Money

2.2

Bathroom



081

Mrs. Holly Wood

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4,230

Dining room

88

Hall

500

Love

343

Miss Mint

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8,500

Mrs. Anita Bathe

0.342

Kitchen

0.5100

Revenge

I

Mrs. Holly Wood

H.E.O

Dining room

0.07

Butter knife

0.3425

Eggshell

0.59

Scalding coffee

---

0.0021

Sun room

12

Professor Plum

H<sub>E</sub>

Revenge



0.002

Dining room

0.00210

Power

90

Butter knife

08

Miss Mint

0.5890

Dining room

1b.0

Acidic orange juice

211

Toxic toast

0.51

Love

18

Hall

0.059

Revenge

8,510

Miss Mint

30

Toxic toast

0.510

Poisoned omelet

---

82

Butter knife

0bZ

Self-defense

35,000

Acidic orange juice



00b07

Kitchen

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[illegible]

Significant Figures **MYSTERY MATCH** Activity *Key*

# Who Killed Mr. Jack Pott?

Mr. Jack Pott was found dead in his mansion. A shock to many, because he was surrounded by friends and family. *Who* could have done it? *Where* and *Why* was it done? *What* could have been used to kill him? To find out, use your rules and complete the *significant figure* problems!

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WHO?				
<input checked="" type="checkbox"/> Miss Mint	I. $2.770 + 12.4$ 15.2	II. $54 \times 3.09$ 170	2I. $290 \times 120.0$ 35,000	
<input checked="" type="checkbox"/> Colonel Cinnamon	2. $61.000 \times 3.10$ 189	12. $300 \times 6.78$ 2,000	22. $35 / 30$ 1	
<input type="checkbox"/> Mr. Arty Fischel	3. $2,300 / 4.010$ 570	13. $5.2 - 3.001$ 2.2	23. $1.17 \times 70$ 80	
<input checked="" type="checkbox"/> Mrs. Holly Wood	4. $947.1 - 458.02$ 489.1	14. $4.0 \times 2,345$ 9,400	24. $90.0 / 99.27$ 0.907	
<input checked="" type="checkbox"/> Professor Plum	5. $110 \times 3.42$ 380	15. $27 + 155.2$ 182	25. $0.0100 \times 0.210$ 0.00210	
<input checked="" type="checkbox"/> Mrs. Anita Bathe	6. $365 + 42.67$ 408	16. $182.2 \times 34.00$ 6,195	26. $4.25 \times 0.120$ 0.510	
WHAT?				
<input checked="" type="checkbox"/> Eggshell	7. $908 \times 800$ 700,000	17. $120 - 32.1$ 88	27. $51 / 0.005990$ 8,500	
<input checked="" type="checkbox"/> Poisoned omelet	8. $14.25 + 67.103$ 81.35	18. $87.0 \times 6$ 500	28. $19 \times 0.03100$ 0.59	
<input checked="" type="checkbox"/> Butter knife	9. $300 \times 3.7891$ 1,000	19. $900 \times 4.7$ 4,000	29. $790 / 23$ 34	
<input checked="" type="checkbox"/> Acidic orange juice	10. $13.10 \times 970$ 13,000	20. $423.00 - 128.9$ 294.1	30. $0.340 + 0.002499$ 0.342	
<input type="checkbox"/> Toxic toast				
<input checked="" type="checkbox"/> Scalding coffee				
WHERE?				
<input checked="" type="checkbox"/> Bathroom				
<input type="checkbox"/> Dining room				
<input checked="" type="checkbox"/> Hall				
<input checked="" type="checkbox"/> Kitchen				
<input checked="" type="checkbox"/> Sun room				
WHY?				
<input checked="" type="checkbox"/> Money				
<input checked="" type="checkbox"/> Revenge				
<input checked="" type="checkbox"/> Love				
<input checked="" type="checkbox"/> Power				
<input type="checkbox"/> Self-defense				
	It was (WHO) Mr. Arty Fischel	With a (WHAT) Toxic toast	In the (WHERE) Dining room	For (WHY) Self-defense

# SOLUTIONS *for* Eliminating Suspects, Tools, Locations, and Motives

Colonel Cinnamon: <u>570</u>	Hall: <u>370</u>	Miss Mint: <u>343</u>
Professor Plum: <u>376</u>	Eggshell: <u>410</u>	Mrs. Anita Bathe: <u>8,500</u>
Hall: <u>700,000</u>	Colonel Cinnamon: <u>1517</u>	Kitchen: <u>0.342</u>
Miss Mint: <u>152</u>	Mrs. Hollywood: <u>573.566</u>	Revenge: <u>0.5100</u>
Mrs. Holly Wood: <u>408</u>	Scalding coffee: <u>726,000</u>	Mrs. Holly Wood: <u>!</u>
Eggshell: <u>1891</u>	Butter knife: <u>189</u>	Dining room: <u>0.34</u>
Toxic toast: <u>730,000</u>	Professor Plum: <u>182.2</u>	Butter knife: <u>0.907</u>
Miss Mint: <u>574</u>	Toxic Toast: <u>190</u>	Eggshell: <u>0.3425</u>
Professor Plum: <u>15</u>	Sun room: <u>4891</u>	Scalding coffee: <u>0.59</u>
Kitchen: <u>489</u>	Revenge: <u>380</u>	Sun room: <u>0.0021</u>
Acidic orange juice: <u>12,700</u>	Scalding coffee: <u>13,000</u>	Professor Plum: <u>12</u>
Eggshell: <u>170</u>	Bathroom: <u>10,000</u>	Revenge: <u>34</u>
Sun room: <u>166</u>	Love: <u>1,000</u>	Dining room: <u>0.002</u>
Dining room: <u>1,137</u>	Power: <u>167</u>	Power: <u>0.00210</u>
Poisoned omelet: <u>4,000</u>	Toxic toast: <u>1,100</u>	Butter knife: <u>0.6</u>
Mrs. Anita Bathe: <u>2941</u>	Colonel Cinnamon: <u>8,514</u>	Miss Mint: <u>80</u>
Acidic orange juice: <u>9,400</u>	Butter knife: <u>6,194.8</u>	Dining room: <u>0.5890</u>
Toxic toast: <u>294</u>	Scalding coffee: <u>9,380</u>	Acidic orange juice: <u>0.91</u>
Dining room: <u>2,034</u>	Self-defense: <u>522</u>	Toxic toast: <u>1.17</u>
Toxic toast: <u>34,800</u>	Power: <u>2,030</u>	Love: <u>0.51</u>
Mr. Arty Fischel: <u>6,200</u>	Acidic orange juice: <u>4,200</u>	Hall: <u>81</u>
Dining room: <u>879</u>	Professor Plum: <u>6,195</u>	Revenge: <u>0.059</u>
Scalding coffee: <u>2.20</u>	Power: <u>81.35</u>	Miss Mint: <u>8,510</u>
Sun room: <u>6,000</u>	Money: <u>2,000</u>	Toxic toast: <u>30</u>
Mrs. Anita Bathe: <u>182</u>	Bathroom: <u>22</u>	Poisoned omelet: <u>0.510</u>
Toxic toast: <u>9,000</u>	Mrs. Holly Wood: <u>180</u>	Butter knife: <u>82</u>
Dining room: <u>520</u>	Dining room: <u>4,230</u>	Self-defense: <u>290</u>
Professor Plum: <u>30,000</u>	Hall: <u>88</u>	Acidic orange juice: <u>35,000</u>
Power: <u>90</u>	Love: <u>500</u>	Kitchen: <u>0.0907</u>

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If you are dissatisfied with the product, please contact me at [sciencefromthesouth@gmail.com](mailto:sciencefromthesouth@gmail.com) before leaving negative feedback. My best efforts will be made to modify the product to fit your needs.

## Teacher's Notes:

Use this download for reviewing or assessing your students' understanding of significant figures.

- The activity is perfect for an interactive assessment.
- Answer key allows for quick and easy assessment or self-assessment.
- Use the single page solutions (pg. 6) for seat work. Or pages 7-50 as cards around the room to get your students up and moving like a scavenger hunt.
- Assess what your students understand
- More engaging than a traditional worksheet
- As easy as print and go!

## Let's Connect!



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♥ Heather

# CREDITS

Graphics and fonts from the amazing teacher authors below were used to create this resource.

Click on their logos to check them out!





Check out [Science From The South](#) for other interactive assessments and assignments!

**Doodle Notes**

# The Atom

An engaging note-taking strategy for your students

**The Atom** is anything that has mass and volume. The smallest most basic particle of matter is an atom.

**The Electron** is a negatively charged particle that is found in an atom. The number of electrons in an atom is equal to the number of protons.

**The Proton** is a positively charged particle that is found in an atom. The number of protons in an atom is equal to the number of electrons.

**The Neutron** is a neutral particle that is found in an atom. The number of neutrons in an atom is equal to the number of protons.

There are 3 basic types of subatomic particles: 1) \_\_\_\_\_, 2) \_\_\_\_\_, and 3) \_\_\_\_\_.

Electrons are about the same size as a blackboard eraser. Protons and neutrons are about the size of a marble. The number of particles in an atom is equal to the number of protons.

**Worksheet**

# The Atom

## MYSTERY PICTURE

An Interactive Review or Assessment

**FUN FOR FALL!**

**The Atom Review Mystery Picture**

**Worksheet**

# Atomic Structure MAZE

Interactive and engaging review or assessment

Perfect for middle and high school students

**Atomic Structure MAZE**

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**Doodle Notes**

# Chemical Formulas of Ionic Compounds

Binary Compounds

**Chemical Formulas of Ionic Compounds**

**Color by Answer**

# Chemical Reactions Review

Perfect for review or an interactive assessment!

Answer KEY Included

**ScIENCE From The South**

**Worksheet**

# Chemical vs Physical Properties and Changes

Perfect for review or assessment!

use with your middle or high school students

**ScIENCE From The South**

**Color By Element**

A LARGE coloring page that is sure to ENGAGE your students

**POSTER**

Perfect for review or an interactive assessment! 15 x 20"

**Color By Element**

**Worksheet**

# Counting Atoms MAZE

Interactive and engaging review or assessment

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**WORKSHEET**

# Electron Configuration MAZE

Interactive and engaging review or assessment

Works great as a quiz or a homework assignment

**ScIENCE From The South**

**INFOGRAPHIC**

# IDENTIFY and CLASSIFY The Atom

For teaching, reviewing, or assessing

**IDENTIFY and CLASSIFY The Atom INFOGRAPHIC**

**Mystery Picture**

# Ionic Bonds and Compounds

Perfect for review or an interactive assessment!

**ScIENCE From The South**