

Physical Science Physics Review

Conduction, Convection, and Radiation Sorting

Listed in the Item Bank below are some key terms and expressions associated with conduction, convection, and radiation. Write each of the items below in the appropriate column.

|   |   |
|---|---|
| An oven that cooks by cycling warm air through the bottom and out the top | Cooking popcorn using a microwave                                     |
| Heat from a fire warming your hands                                       | Putting an ice pack on an injury                                      |
| Warm water rising to the surface of the ocean and cooler water sinking    | Burning yourself by touching boiling water                            |
| Grabbing a warm coffee mug to warm your hands                             | Heat from the sun hitting a solar panel                               |
| Warm air rising off of the pavement                                       | The handle of a pot becoming too hot to grab as it cooks on the stove |

| Conduction | Convection | Radiation |
|------------|------------|-----------|
|            |            |           |
|            |            |           |
|            |            |           |
|            |            |           |
|            |            |           |

**Newton’s Laws of Motion Sorting**

*Listed in the Item Bank below are some key terms and expressions associated with Newton’s Laws of Motion. Write each of the items below in the appropriate column.*

|  |   |   |
|--|---|---|
| A ball is rolling straight across the floor until someone kicks it.                              | A car runs into a fence and the fence dents the car.                                    | Matthew lets go of a recently blown up balloon, and it flies across the room as the air escapes.              |
| When riding the bumper cars at a fair, you bump into your friend and your car bounces backwards. | Your car breaks down. As your friends help you push it, it begins to move and speed up. | A bowling ball and a baseball both roll across your foot at the same speed. The bowling ball hurts much more. |
| Karen drops a marble on the ground, and it rolls across the floor in a straight line.            | Pushing your baby brother on the swing makes him go higher.                             | You place a pencil on your desk, and it stays there.  |

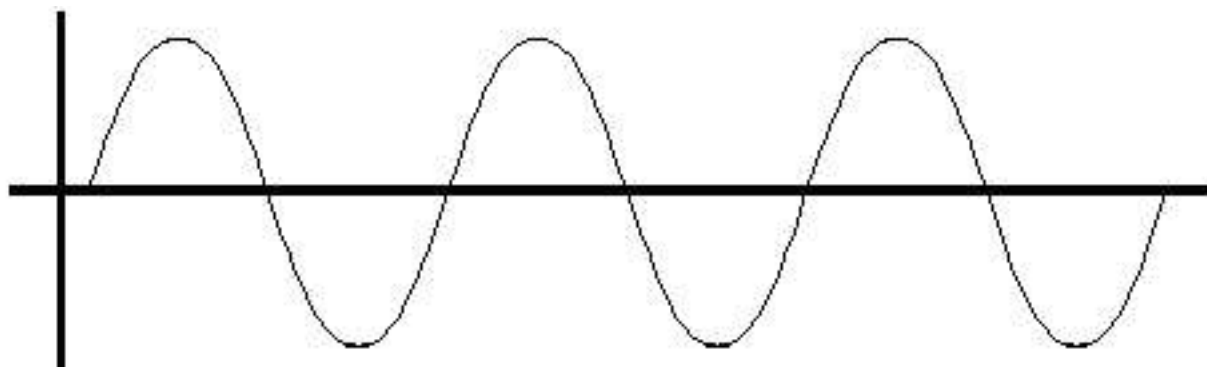
| Newton’s First Law | Newton’s Second Law | Newton’s Third Law |
|--------------------|---------------------|--------------------|
|                    |                     |                    |
|                    |                     |                    |
|                    |                     |                    |

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### **Wave Labeling**

*Label the waves below with the terms in the word bank.*

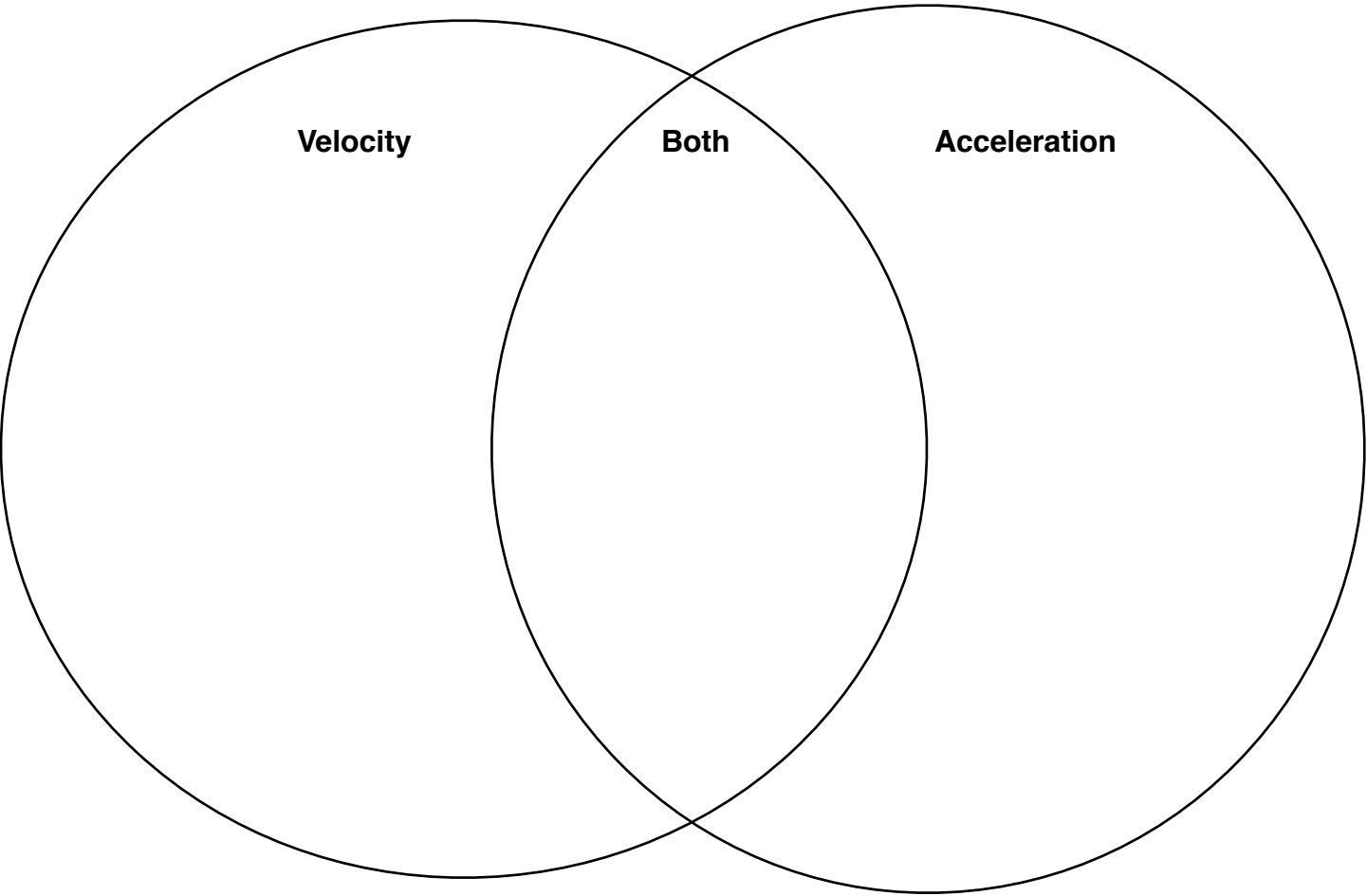
|               |                 |                   |
|---------------|-----------------|-------------------|
| amplitude     | wavelength      | rarefaction       |
| crest         | compression     | trough            |
| rest position | transverse wave | longitudinal wave |



**Velocity vs. Acceleration**

Listed in the Item Bank below are some key terms and expressions associated with the categories seen in the Venn Diagram. Write each of the items below in the appropriate place in the Venn Diagram.

|  |                             |  |
|--|-----------------------------|--|
| A rate of change                       | Can be positive or negative | change in displacement over change in time |
| Change in velocity over change in time | units m/s                   | units m/s <sup>2</sup>                     |
| includes speed and direction           |                             |  |



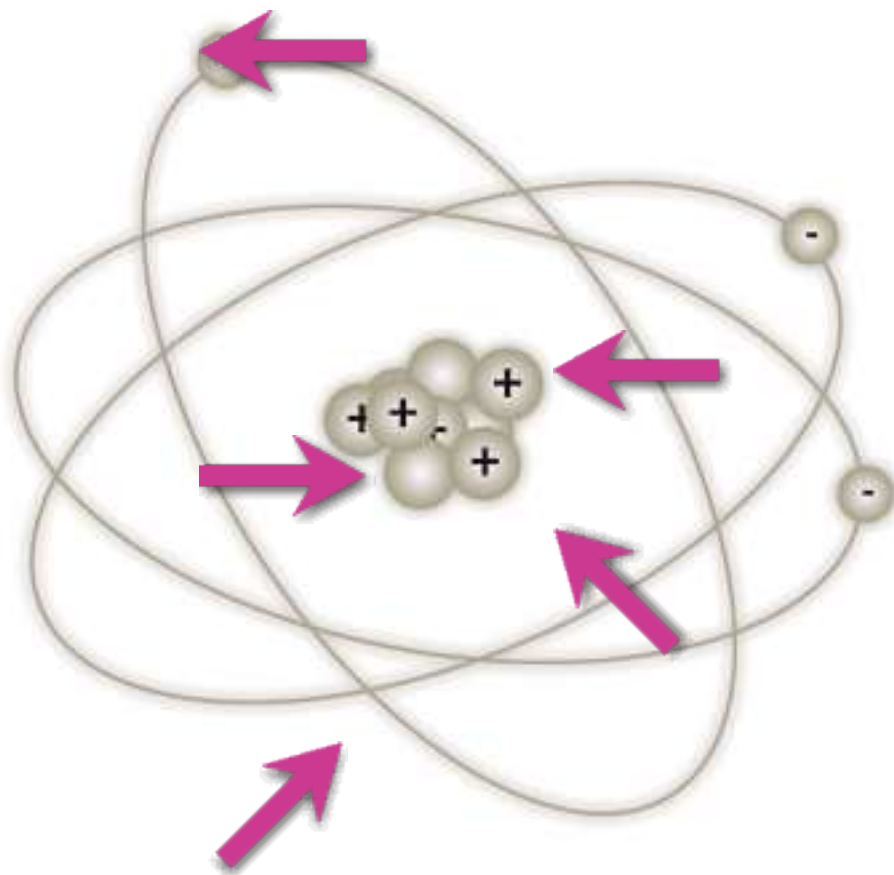
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## Physical Science Chemistry Review

### **Label an Atom**

*Label the atom below with the terms in the word bank.*

|          |                |         |         |        |
|----------|----------------|---------|---------|--------|
| electron | electron cloud | neutron | nucleus | proton |
|----------|----------------|---------|---------|--------|

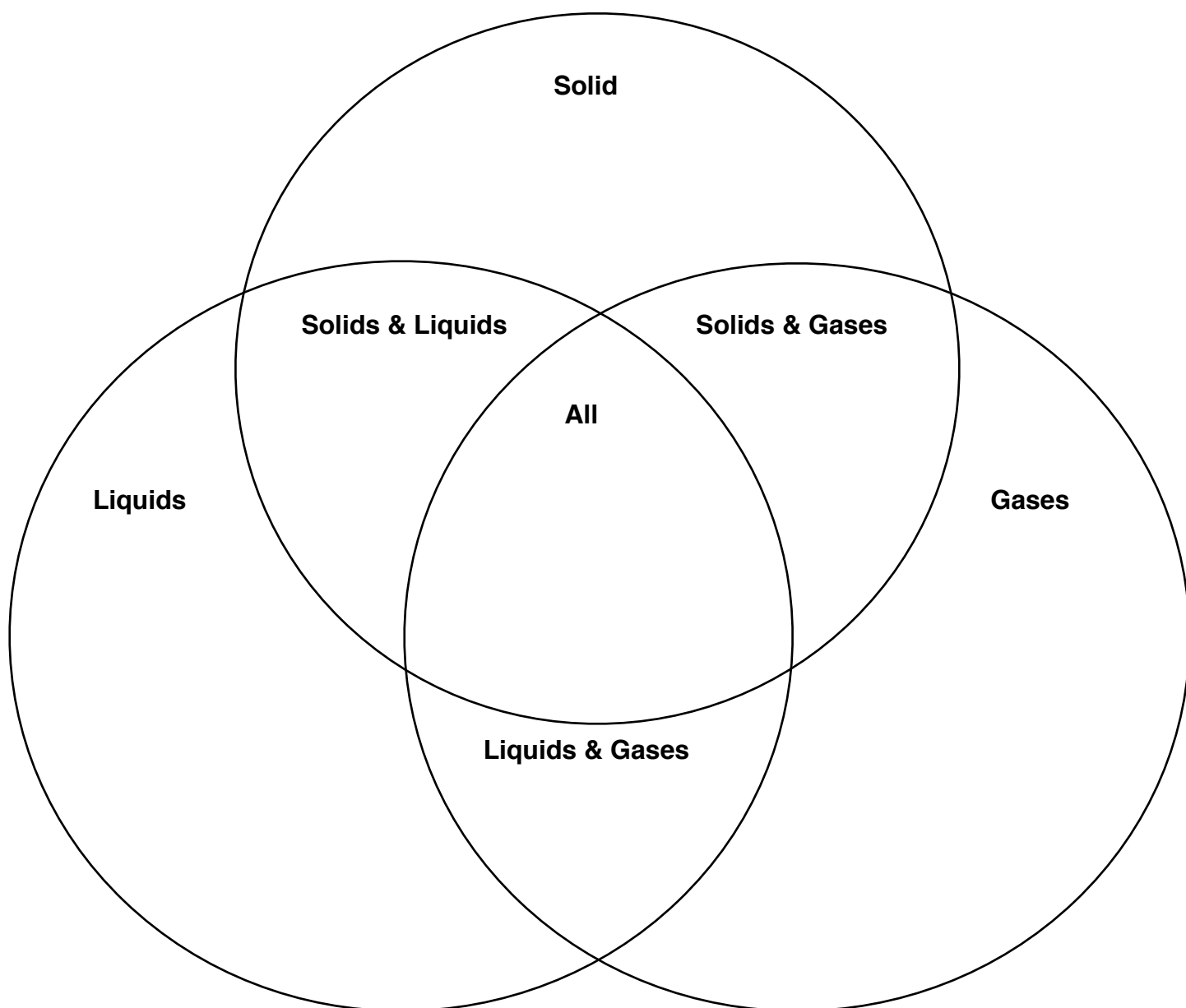


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

### **Solid, Liquid, Gas Venn Diagram**

Listed in the Item Bank below are some key terms and expressions associated with the categories seen in the Venn Diagram. Write each of the items below in the appropriate place in the Venn Diagram.

|   |  |
|---|--|
| constant, rapid, random particle motion | definite shape                         |
| definite volume                         | easily compressed                      |
| fluid motion                            | made of atoms and compounds            |
| mostly incompressible                   | no definite shape                      |
| no definite volume                      | very little individual particle motion |



Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

## Label the Periodic Table

Label the periodic table below with the terms in the word bank.

|                         |                            |                           |
|-------------------------|----------------------------|---------------------------|
| alkali metals           | alkaline earth metals      | metalloid                 |
| metals                  | nonmetals                  | transition metals         |
| inner transition metals | halogens                   | noble gases               |
| stairstep               | elements that form cations | elements that form anions |

| Group  | 1                        | 2                        | 3                        | 4                         | 5                         | 6                         | 7                         | 8                         | 9                         | 10                        | 11                        | 12                        | 13                       | 14                         | 15                       | 16                         | 17                       | 18                       |
|--------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------|----------------------------|--------------------------|----------------------------|--------------------------|--------------------------|
| Period |                          |                          |                          |                           |                           |                           |                           |                           |                           |                           |                           |                           |                          |                            |                          |                            |                          |                          |
| 1      | 1<br><b>H</b><br>1.008   |                          |                          |                           |                           |                           |                           |                           |                           |                           |                           |                           |                          |                            |                          |                            |                          | 2<br><b>He</b><br>4.003  |
| 2      | 3<br><b>Li</b><br>6.941  | 4<br><b>Be</b><br>9.012  |                          |                           |                           |                           |                           |                           |                           |                           |                           |                           | 5<br><b>B</b><br>10.81   | 6<br><b>C</b><br>12.01     | 7<br><b>N</b><br>14.01   | 8<br><b>O</b><br>16.00     | 9<br><b>F</b><br>19.00   | 10<br><b>Ne</b><br>20.18 |
| 3      | 11<br><b>Na</b><br>22.99 | 12<br><b>Mg</b><br>24.31 |                          |                           |                           |                           |                           |                           |                           |                           |                           |                           | 13<br><b>Al</b><br>26.98 | 14<br><b>Si</b><br>28.09   | 15<br><b>P</b><br>30.97  | 16<br><b>S</b><br>32.07    | 17<br><b>Cl</b><br>35.45 | 18<br><b>Ar</b><br>39.95 |
| 4      | 19<br><b>K</b><br>39.10  | 20<br><b>Ca</b><br>40.08 | 21<br><b>Sc</b><br>44.96 | 22<br><b>Ti</b><br>47.88  | 23<br><b>V</b><br>50.94   | 24<br><b>Cr</b><br>52.00  | 25<br><b>Mn</b><br>54.94  | 26<br><b>Fe</b><br>55.85  | 27<br><b>Co</b><br>58.93  | 28<br><b>Ni</b><br>58.69  | 29<br><b>Cu</b><br>63.55  | 30<br><b>Zn</b><br>65.39  | 31<br><b>Ga</b><br>69.72 | 32<br><b>Ge</b><br>72.64   | 33<br><b>As</b><br>74.92 | 34<br><b>Se</b><br>78.96   | 35<br><b>Br</b><br>79.90 | 36<br><b>Kr</b><br>83.79 |
| 5      | 37<br><b>Rb</b><br>85.47 | 38<br><b>Sr</b><br>87.62 | 39<br><b>Y</b><br>88.91  | 40<br><b>Zr</b><br>91.22  | 41<br><b>Nb</b><br>92.91  | 42<br><b>Mo</b><br>95.94  | 43<br><b>Tc</b><br>(98)   | 44<br><b>Ru</b><br>101.1  | 45<br><b>Rh</b><br>102.9  | 46<br><b>Pd</b><br>106.4  | 47<br><b>Ag</b><br>107.9  | 48<br><b>Cd</b><br>112.4  | 49<br><b>In</b><br>114.8 | 50<br><b>Sn</b><br>118.7   | 51<br><b>Sb</b><br>121.8 | 52<br><b>Te</b><br>127.6   | 53<br><b>I</b><br>126.9  | 54<br><b>Xe</b><br>131.3 |
| 6      | 55<br><b>Cs</b><br>132.9 | 56<br><b>Ba</b><br>137.3 | *                        | 72<br><b>Hf</b><br>178.5  | 73<br><b>Ta</b><br>180.9  | 74<br><b>W</b><br>183.9   | 75<br><b>Re</b><br>186.2  | 76<br><b>Os</b><br>190.2  | 77<br><b>Ir</b><br>192.2  | 78<br><b>Pt</b><br>195.1  | 79<br><b>Au</b><br>197.0  | 80<br><b>Hg</b><br>200.5  | 81<br><b>Tl</b><br>204.4 | 82<br><b>Pb</b><br>207.2   | 83<br><b>Bi</b><br>209.0 | 84<br><b>Po</b><br>(209)   | 85<br><b>At</b><br>(210) | 86<br><b>Rn</b><br>(222) |
| 7      | 87<br><b>Fr</b><br>(223) | 88<br><b>Ra</b><br>(226) | **                       | 104<br><b>Rf</b><br>(261) | 105<br><b>Db</b><br>(262) | 106<br><b>Sg</b><br>(266) | 107<br><b>Bh</b><br>(264) | 108<br><b>Hs</b><br>(277) | 109<br><b>Mt</b><br>(268) | 110<br><b>Ds</b><br>(271) | 111<br><b>Rg</b><br>(272) | 112<br><b>Cn</b><br>(277) | 113<br><b>Uut</b><br>(?) | 114<br><b>Uuq</b><br>(285) | 115<br><b>Uup</b><br>(?) | 116<br><b>Uuh</b><br>(289) | 117<br><b>Uus</b><br>(?) | 118<br><b>Uuo</b><br>(?) |

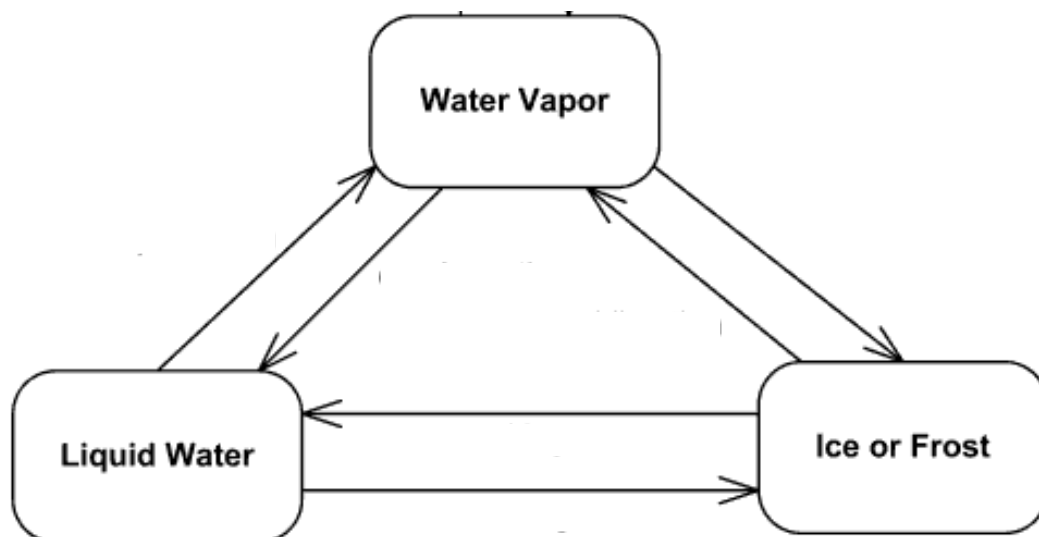
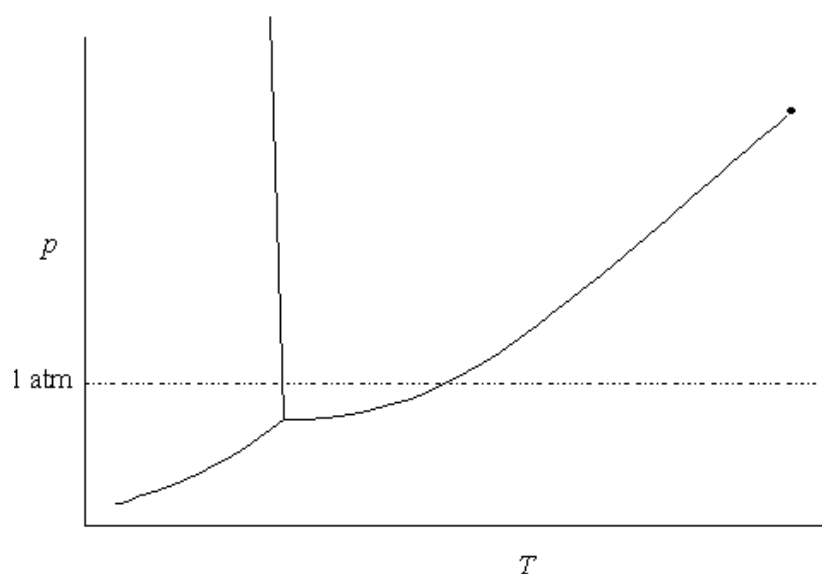
|                    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                           |                           |                           |                           |
|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Lanthanide Series* | 57<br><b>La</b><br>138.9 | 58<br><b>Ce</b><br>140.1 | 59<br><b>Pr</b><br>140.9 | 60<br><b>Nd</b><br>144.2 | 61<br><b>Pm</b><br>(145) | 62<br><b>Sm</b><br>150.4 | 63<br><b>Eu</b><br>152.0 | 64<br><b>Gd</b><br>157.2 | 65<br><b>Tb</b><br>158.9 | 66<br><b>Dy</b><br>162.5 | 67<br><b>Ho</b><br>164.9 | 68<br><b>Er</b><br>167.3  | 69<br><b>Tm</b><br>168.9  | 70<br><b>Yb</b><br>173.0  | 71<br><b>Lu</b><br>175.0  |
| Actinide Series**  | 89<br><b>Ac</b><br>(227) | 90<br><b>Th</b><br>232   | 91<br><b>Pa</b><br>231   | 92<br><b>U</b><br>238    | 93<br><b>Np</b><br>(237) | 94<br><b>Pu</b><br>(244) | 95<br><b>Am</b><br>(243) | 96<br><b>Cm</b><br>(247) | 97<br><b>Bk</b><br>(247) | 98<br><b>Cf</b><br>(251) | 99<br><b>Es</b><br>(252) | 100<br><b>Fm</b><br>(257) | 101<br><b>Md</b><br>(258) | 102<br><b>No</b><br>(259) | 103<br><b>Lr</b><br>(262) |

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

### Water Phase Diagrams

Listed in the Item Bank are some important labels for the sections of the images below. Write each of the items below in the appropriate place on the diagrams.

|               |              |                |
|---------------|--------------|----------------|
| boiling point | sublimation  | liquid         |
| condensation  | triple point | gas            |
| melting point | evaporation  | solid          |
| melting       | freezing     | critical point |





Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

### **Units of Measurement**

*Write the items in the word bank next to their correct match.*

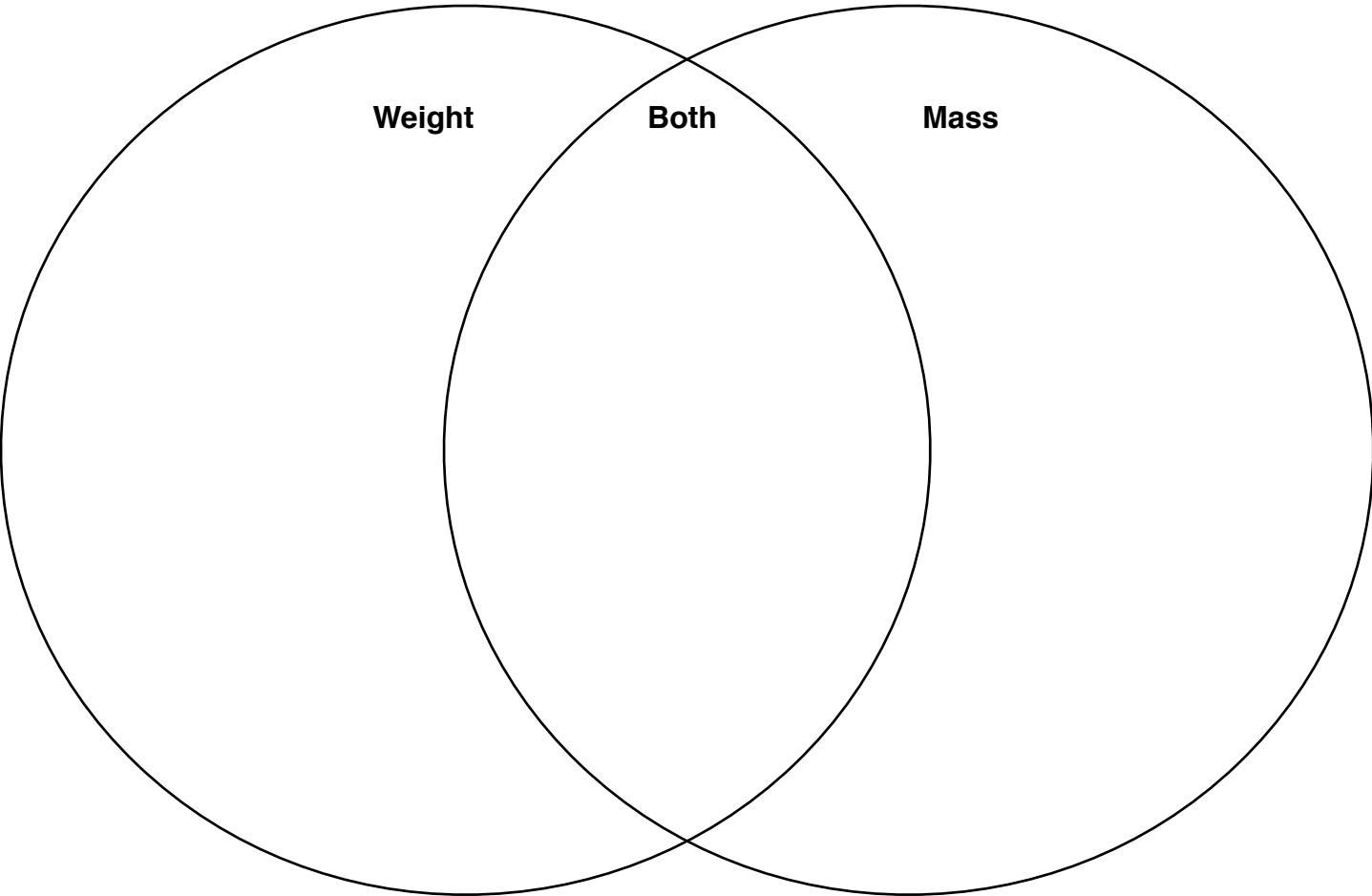
|       |          |       |        |        |       |
|-------|----------|-------|--------|--------|-------|
| Joule | Kilogram | Meter | Newton | Second | Watts |
|-------|----------|-------|--------|--------|-------|

1. The SI unit of mass. \_\_\_\_\_
2. The SI unit of length. \_\_\_\_\_
3. The SI unit of energy or work. \_\_\_\_\_
4. The SI unit of force. \_\_\_\_\_
5. The SI unit of time. \_\_\_\_\_
6. The SI unit of power. \_\_\_\_\_

**Weight vs. Mass**

*Listed in the Item Bank below are some key terms and expressions associated with the categories seen in the Venn Diagram. Write each of the items below in the appropriate place in the Venn Diagram.*

|                   |                    |                  |                     |
|-------------------|--------------------|------------------|---------------------|
| 1/6 on the moon   | amount of matter   | balance          | measured in Newtons |
| measured in grams | property of matter | same on the moon | gravitational force |



Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

## Classify Metals, Nonmetals, and Metalloids

Listed in the Item Bank below are some key terms and expressions associated with Newton's Laws of Motion. Write each of the items below in the appropriate column.

|                              |                |                             |
|------------------------------|----------------|-----------------------------|
| dull and brittle             | good conductor | good insulator              |
| high density                 | high luster    | left side of periodic table |
| ductile                      | noble gas      | oxygen, nitrogen, neon      |
| right side of periodic table | semiconductor  | silicon, germanium, arsenic |
| sodium, magnesium, iron      | malleable      | form positive ions          |

[illegible]

Name: Key Date: \_\_\_\_\_ Block: \_\_\_\_\_

## Physical Science Physics Review

### Conduction, Convection, and Radiation Sorting

Listed in the Item Bank below are some key terms and expressions associated with conduction, convection, and radiation. Write each of the items below in the appropriate column.

|   |  |
|---|--|
| An oven that cooks by cycling warm air through the bottom and out the top (1) | Cooking popcorn using a microwave (6)                                      |
| Heat from a fire warming your hands (2)                                       | Putting an ice pack on an injury (7)                                       |
| Warm water rising to the surface of the ocean and cooler water sinking (3)    | Burning yourself by touching boiling water (8)                             |
| Grabbing a warm coffee mug to warm your hands (4)                             | Heat from the sun hitting a solar panel (9)                                |
| Warm air rising off of the pavement (5)                                       | The handle of a pot becoming too hot to grab as it cooks on the stove (10) |

| Conduction | Convection | Radiation |
|------------|------------|-----------|
| (4)        | (1)        | (2)       |
| (7)        | (3)        | (5)       |
| (8)        | (6)        | (9)       |
| (10)       |            |           |
|            |            |           |

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

### Units of Measurement

*Write the items in the word bank next to their correct match.*

|       |          |       |        |        |       |
|-------|----------|-------|--------|--------|-------|
| Joule | Kilogram | Meter | Newton | Second | Watts |
|-------|----------|-------|--------|--------|-------|

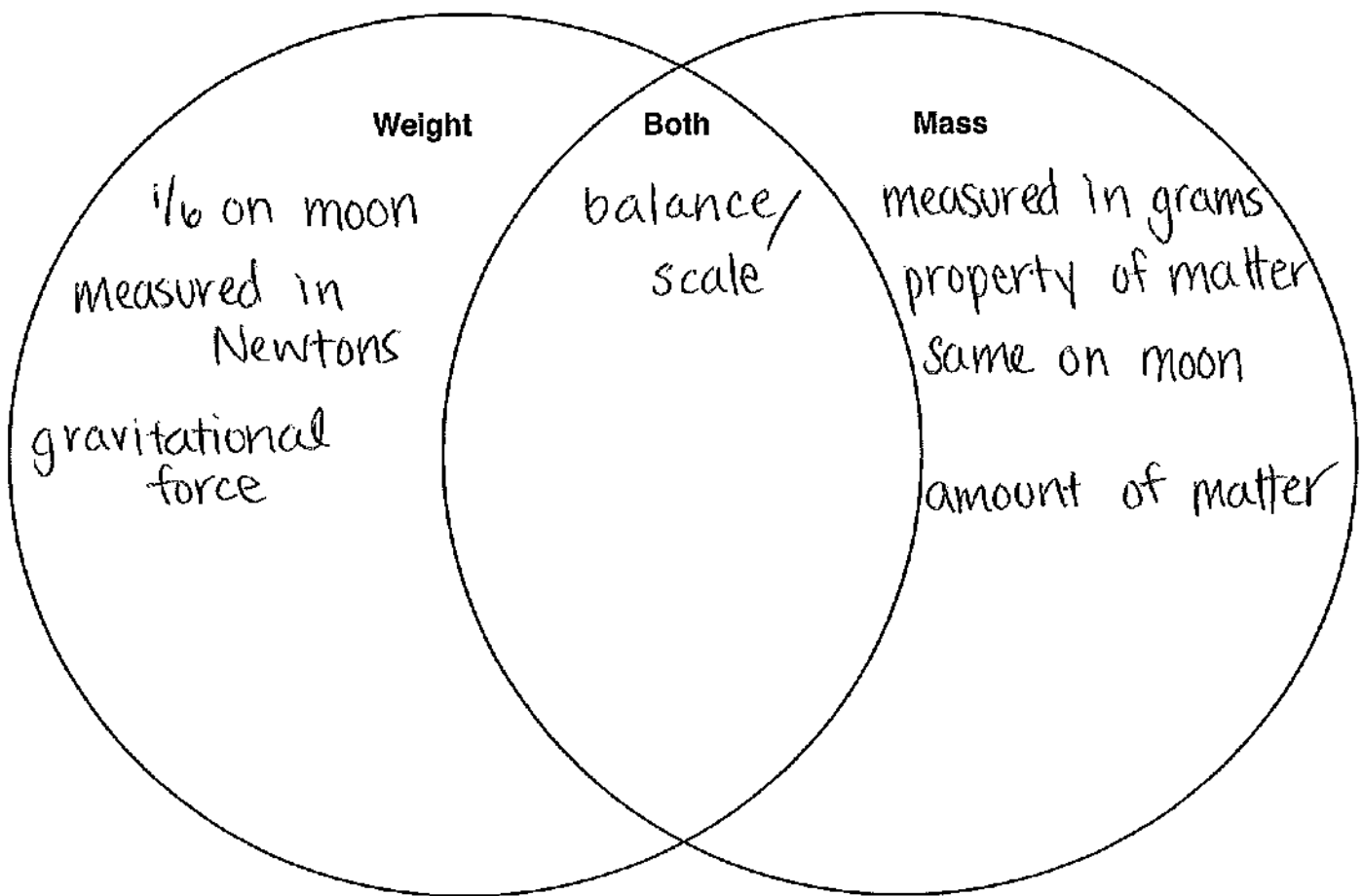
1. The SI unit of mass. Kilogram
2. The SI unit of length. meter
3. The SI unit of energy or work. Joule
4. The SI unit of force. newton
5. The SI unit of time. second
6. The SI unit of power. Watts

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

### Weight vs. Mass

Listed in the Item Bank below are some key terms and expressions associated with the categories seen in the Venn Diagram. Write each of the items below in the appropriate place in the Venn Diagram.

|                   |                    |                  |                     |
|-------------------|--------------------|------------------|---------------------|
| 1/6 on the moon   | amount of matter   | balance / scale  | measured in Newtons |
| measured in grams | property of matter | same on the moon | gravitational force |



\* Kids may confuse balance + scale. Scale gives weight. Balance gives mass

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

### Newton's Laws of Motion Sorting

Listed in the Item Bank below are some key terms and expressions associated with Newton's Laws of Motion. Write each of the items below in the appropriate column.

|  |   |   |
|--|---|---|
| A ball is rolling straight across the floor until someone kicks it. (1)                              | A car runs into a fence and the fence dents the car. (4)                                    | Matthew lets go of a recently blown up balloon, and it flies across the room as the air escapes. (7)              |
| When riding the bumper cars at a fair, you bump into your friend and your car bounces backwards. (2) | Your car breaks down. As your friends help you push it, it begins to move and speed up. (5) | A bowling ball and a baseball both roll across your foot at the same speed. The bowling ball hurts much more. (8) |
| Karen drops a marble on the ground, and it rolls across the floor in a straight line. (3)            | Pushing your baby brother on the swing makes him go higher. (6)                             | You place a pencil on your desk, and it stays there. (9)  |

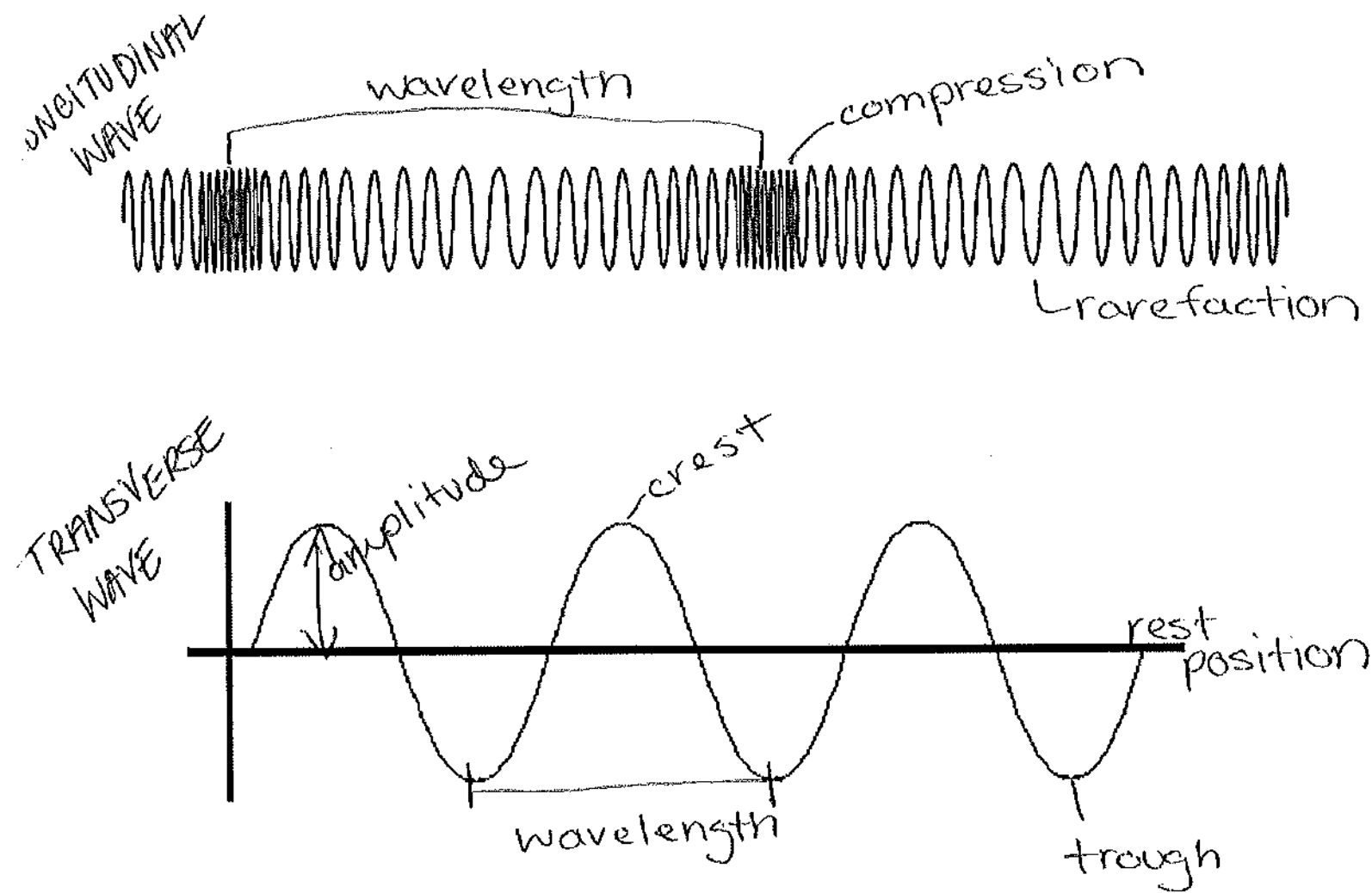
| Newton's First Law | Newton's Second Law | Newton's Third Law |
|--------------------|---------------------|--------------------|
| (1)                | (5)                 | (2)                |
| (3)                | (6)                 | (7)                |
| (9)                | (8)                 | (4)                |

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

### Wave Labeling

Label the waves below with the terms in the word bank.

|               |                 |                   |
|---------------|-----------------|-------------------|
| amplitude     | wavelength      | rarefaction       |
| crest         | compression     | trough            |
| rest position | transverse wave | longitudinal wave |



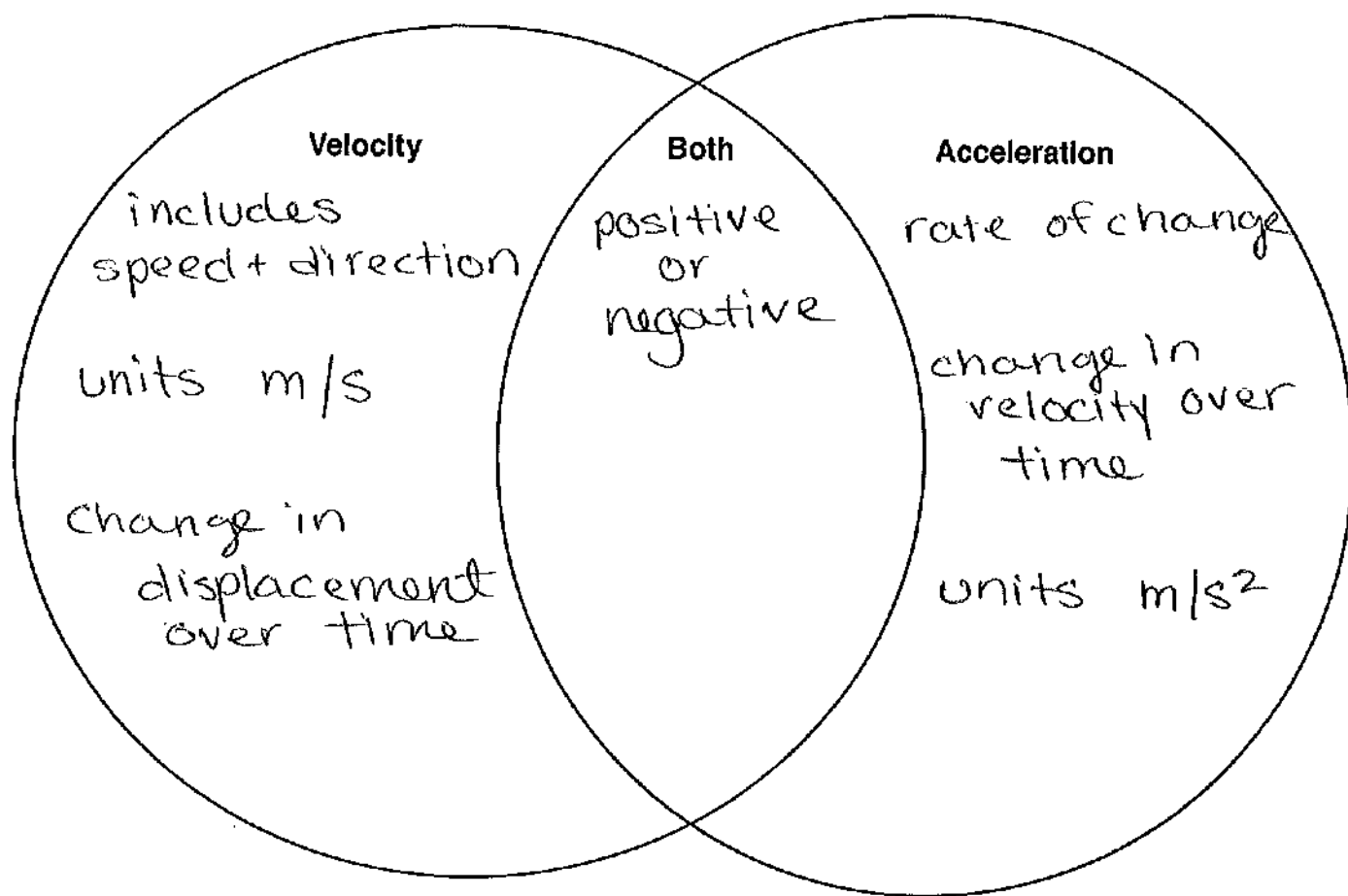


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

### Velocity vs. Acceleration

Listed in the Item Bank below are some key terms and expressions associated with the categories seen in the Venn Diagram. Write each of the items below in the appropriate place in the Venn Diagram.

|  |                             |  |
|--|-----------------------------|--|
| A rate of change                       | Can be positive or negative | change in displacement over change in time |
| Change in velocity over change in time | units m/s                   | units m/s <sup>2</sup>                     |
| Includes speed and direction           |                             |  |



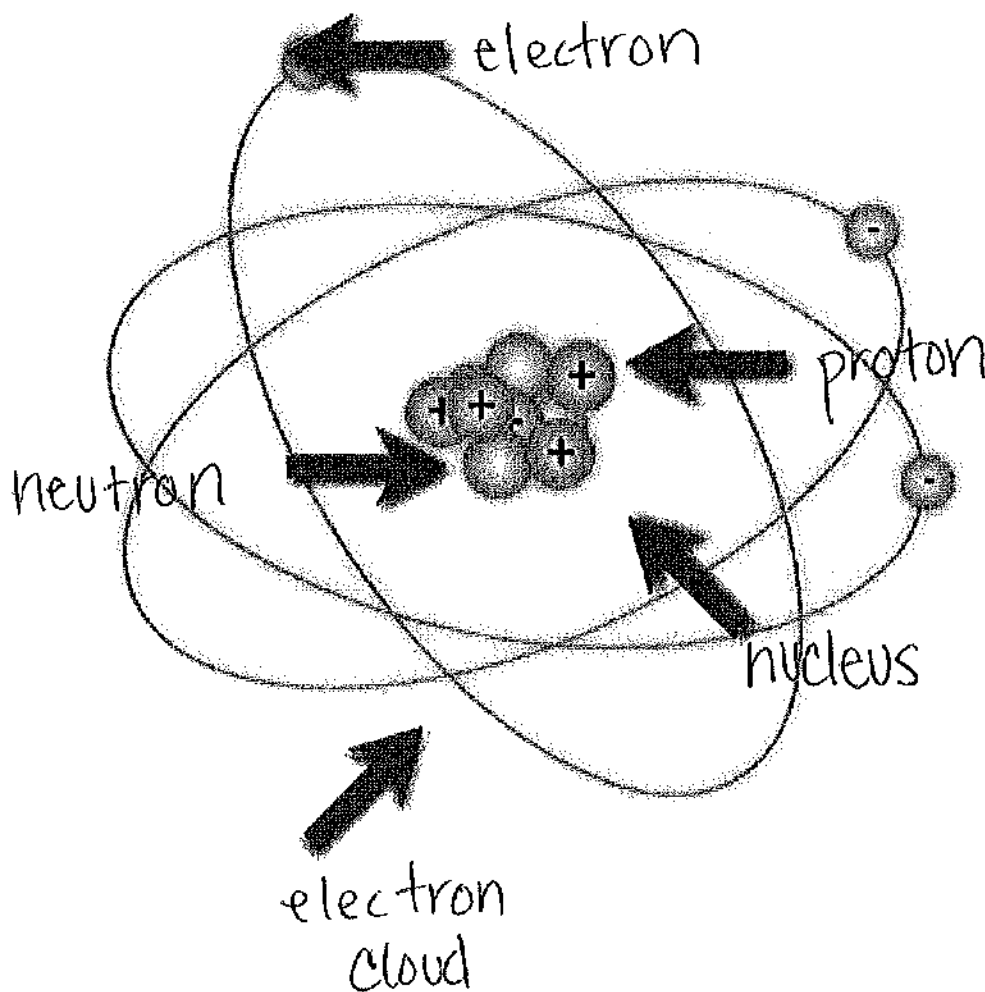
Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

## Physical Science Chemistry Review

### Label an Atom

Label the atom below with the terms in the word bank.

|          |                |         |         |        |
|----------|----------------|---------|---------|--------|
| electron | electron cloud | neutron | nucleus | proton |
|----------|----------------|---------|---------|--------|

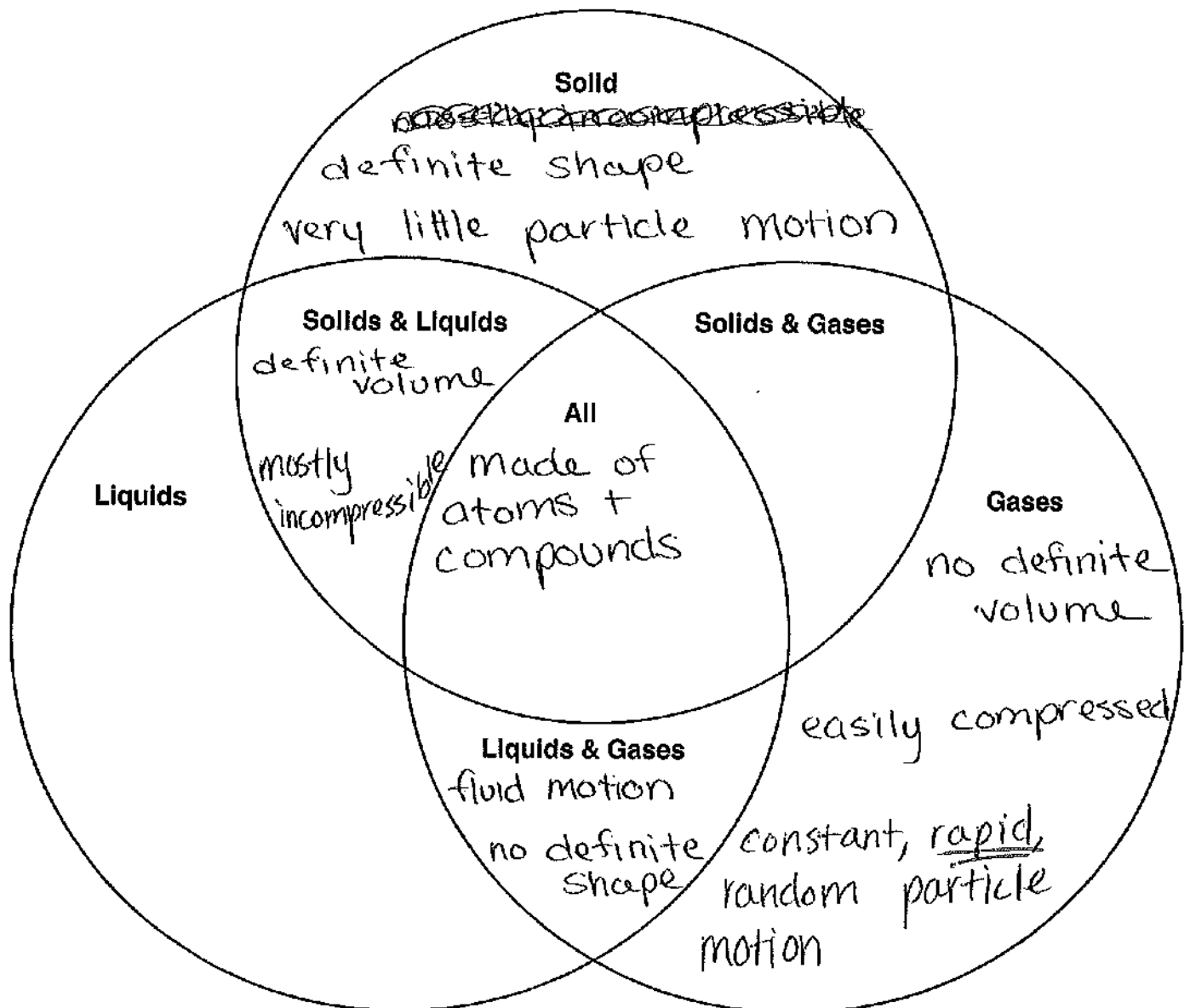


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

### Solid, Liquid, Gas Venn Diagram

Listed in the Item Bank below are some key terms and expressions associated with the categories seen in the Venn Diagram. Write each of the items below in the appropriate place in the Venn Diagram.

|   |  |
|---|--|
| constant, rapid, random particle motion | definite shape                         |
| definite volume                         | easily compressed                      |
| fluid motion                            | made of atoms and compounds            |
| mostly incompressible                   | no definite shape                      |
| no definite volume                      | very little individual particle motion |

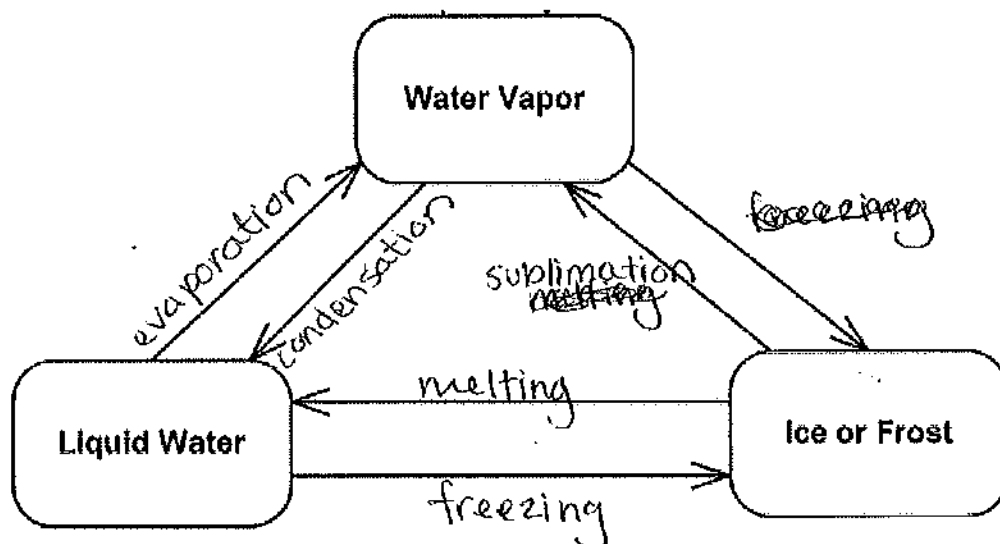
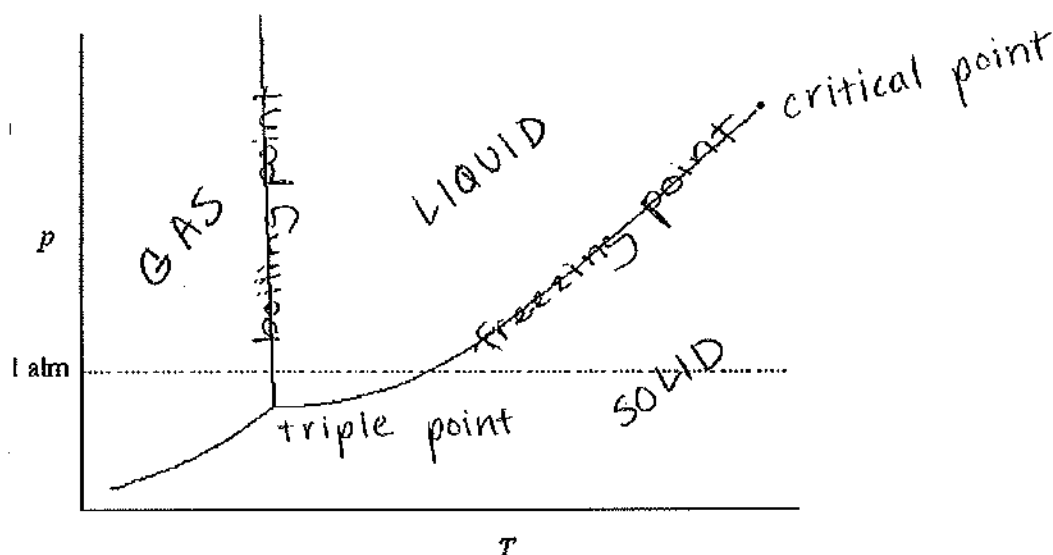


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

### Water Phase Diagrams

Listed in the Item Bank are some important labels for the sections of the images below. Write each of the items below in the appropriate place on the diagrams.

|               |              |                |
|---------------|--------------|----------------|
| boiling point | sublimation  | liquid         |
| condensation  | triple point | gas            |
| melting point | evaporation  | solid          |
| melting       | freezing     | critical point |



Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

### Label the Periodic Table

Label the periodic table below with the terms in the word bank.

|                         |   |                            |   |                           |   |
|-------------------------|---|----------------------------|---|---------------------------|---|
| alkali metals           | ① | alkaline earth metals      | ⑤ | metalloid                 | ⑨ |
| metals                  | ② | nonmetals                  | ⑥ | transition metals         | ⑩ |
| inner transition metals | ③ | halogens                   | ⑦ | noble gases               | ⑪ |
| stairstep               | ④ | elements that form cations | ⑧ | elements that form anions | ⑫ |

| Group  | 1           | 2           | 3           | 4           | 5           | 6           | 7           | 8           | 9           | 10          | 11          | 12          | 13          | 14           | 15          | 16           | 17          | 18          |
|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|
| Period | ①           |             |             |             |             |             |             |             |             |             |             |             |             |              |             |              |             | ⑪           |
| 1      | H<br>1.008  |             |             |             |             |             |             |             |             |             |             |             |             |              |             |              |             | He<br>4.003 |
| 2      | Li<br>6.941 | Be<br>9.012 |             |             |             |             |             |             |             |             |             |             | B<br>10.81  | C<br>12.01   | N<br>14.01  | O<br>16.00   | F<br>18.99  | Ne<br>20.18 |
| 3      | Na<br>22.99 | Mg<br>24.31 |             |             |             |             |             |             |             |             |             |             | Al<br>26.98 | Si<br>28.09  | P<br>30.97  | S<br>32.07   | Cl<br>35.45 | Ar<br>39.95 |
| 4      | K<br>39.10  | Ca<br>40.08 | Sc<br>44.96 | Ti<br>47.88 | V<br>50.94  | Cr<br>52.00 | Mn<br>54.94 | Fe<br>55.85 | Co<br>58.93 | Ni<br>58.69 | Cu<br>63.55 | Zn<br>65.39 | Ga<br>69.72 | Ge<br>72.64  | As<br>74.92 | Se<br>78.96  | Br<br>79.90 | Kr<br>83.79 |
| 5      | Rb<br>85.47 | Sr<br>87.62 | Y<br>88.91  | Zr<br>91.22 | Nb<br>92.91 | Mo<br>95.94 | Tc<br>(98)  | Ru<br>(101) | Rh<br>102.9 | Pd<br>106.4 | Ag<br>107.9 | Cd<br>112.4 | In<br>114.8 | Sn<br>118.7  | Sb<br>121.8 | Te<br>127.6  | I<br>126.9  | Xe<br>131.3 |
| 6      | Cs<br>132.9 | Ba<br>137.3 |             | Hf<br>178.5 | Ta<br>180.9 | W<br>183.8  | Re<br>186.2 | Os<br>190.2 | Ir<br>192.2 | Pt<br>195.1 | Au<br>197.0 | Hg<br>200.6 | Tl<br>204.4 | Pb<br>207.2  | Bi<br>208.0 | Po<br>(209)  | At<br>(210) | Rn<br>(222) |
| 7      | Fr<br>(223) | Ra<br>(226) |             | Rf<br>(261) | Db<br>(262) | Sg<br>(266) | Bh<br>(264) | Hs<br>(277) | Mt<br>(268) | Ds<br>(271) | Rg<br>(272) | Cn<br>(277) | Uut<br>(?)  | Uuq<br>(285) | Uup<br>(?)  | Uuh<br>(289) | Uus<br>(?)  | Uuo<br>(?)  |

|                    |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                    |                    |                    |                    |
|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| Lanthanide Series* | 57<br>La<br>138.9 | 58<br>Ce<br>140.1 | 59<br>Pr<br>140.9 | 60<br>Nd<br>144.2 | 61<br>Pm<br>(145) | 62<br>Sm<br>150.4 | 63<br>Eu<br>152.0 | 64<br>Gd<br>157.2 | 65<br>Tb<br>158.9 | 66<br>Dy<br>162.5 | 67<br>Ho<br>164.9 | 68<br>Er<br>167.3  | 69<br>Tm<br>168.9  | 70<br>Yb<br>173.0  | 71<br>Lu<br>175.0  |
| Actinide Series**  | 89<br>Ac<br>(227) | 90<br>Th<br>232   | 91<br>Pa<br>231   | 92<br>U<br>238    | 93<br>Np<br>(237) | 94<br>Pu<br>(244) | 95<br>Am<br>(243) | 96<br>Cm<br>(247) | 97<br>Bk<br>(247) | 98<br>Cf<br>(251) | 99<br>Es<br>(262) | 100<br>Fm<br>(257) | 101<br>Md<br>(258) | 102<br>No<br>(259) | 103<br>Lr<br>(262) |

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

### Classify Metals, Nonmetals, and Metalloids

Listed in the Item Bank below are some key terms and expressions associated with Newton's Laws of Motion. Write each of the items below in the appropriate column.

|                                  |                    |                                  |
|----------------------------------|--------------------|----------------------------------|
| dull and brittle (1)             | good conductor (6) | good insulator (11)              |
| high density (2)                 | high luster (7)    | left side of periodic table (12) |
| ductile (3)                      | noble gas (8)      | oxygen, nitrogen, neon (13)      |
| right side of periodic table (4) | semiconductor (9)  | silicon, germanium, arsenic (14) |
| sodium, magnesium, iron (5)      | malleable (10)     | form positive ions (15)          |

| Metals | Metalloids | Nonmetals |
|--------|------------|-----------|
| (2)    | (9)        | (1)       |
| (3)    | (14)       | (4)       |
| (5)    |            | (8)       |
| (6)    |            | (11)      |
| (7)    |            | (13)      |
| (10)   |            |           |
| (12)   |            |           |
| (15)   |            |           |