

**Science Trivia**  
5<sup>th</sup> grade  
Updated 2012

**5.4 Matter**

1

What are the three states of matter?

2

If a substance exists as a solid, liquid, or gas, and it has volume and mass, we know that it is \_\_\_\_\_.

3

Every element is made up of only one kind of \_\_\_\_\_.

4

All elements on earth are listed in the \_\_\_\_\_ table.

5

There are over 100 \_\_\_\_\_ known to exist on earth.

6

Elements combine *chemically* to form \_\_\_\_\_.

7

When tomatoes ripen, their color changes. This is an example of a \_\_\_\_\_ change.

8

The study of materials at their molecular stage is-

9

Matter can change into different states/forms if there is a \_\_\_\_\_ change.

<p>10</p> <p>When different types of solids combine (a bowl filled with different types of candy), they form a-</p>	<p>11</p> <p>When one substance dissolves into a liquid substance (salt in warm water), they form a-</p>
<p>12</p> <p>Changes that occur in mixtures and solutions are _____ changes.</p>	<p>13</p> <p>Rust is formed when iron combines with oxygen over a period of time. This is an example of a _____.</p>
<p>14</p> <p>Water can be written: <math>H_2O</math> This is called a chemical-</p>	<p>15</p> <p>Atoms that join together with other atoms form _____.</p>
<p>16</p> <p>The smallest part of a compound is a-</p>	<p>17</p> <p>A substance that cannot be changed into a simpler substance is a(n)-</p>
<p>18</p> <p>If two of the same sized containers hold two different items, such as cotton balls and sand, we can say that-</p>	<p>19</p> <p>Which state of matter has definite shape and volume?</p>

20

Which state of matter has definite volume and assumes the shape of its container?

21

Which state of matter assumes the shape of its container, but has NO definite shape or volume?

22

Which state of matter is NOT compressible or does not allow molecules to move because they are packed tightly together?

23

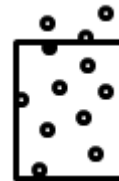
Which state of matter has molecules that are close, but move freely past one another?

24

Which state of matter is compressible or allows molecules to move quickly and freely past one another?

25

Which state of matter is shown?



26

Which state of matter is shown?



27

Which state of matter is shown?



28

All matter is made up of \_\_\_\_\_ and \_\_\_\_\_.

29

\_\_\_\_\_ is the amount of matter in an object.

1

**solid  
liquid  
gas**

3

**atom**

2

**matter**

5

**elements**

4

**periodic**

7

**chemical**

6

**compound**

9

**temperature**

8

**nanotechnology**

11

**solution**

10

**mixture**

13

**compound**

12

**physical**

15

**molecules**

14

**formula**

17

**element**

16

**molecule**

19

**solid**

18

**The volume is the SAME,  
but the mass, or weight,  
is DIFFERENT**

21

**gas**

20

**liquid**

23

**liquid**

22

**solid**

25

**gas**

24

**gas**

27

**solid**

26

**liquid**

29

**mass**

28

**atoms  
molecules**