Name: Date:

MATTER

ATOMS

Activity 1

Let's investigate atoms.

INVESTIGATING THE SIZE OF AN ATOM

A.- OBJECTIVE:

• To have an idea of how small an atom is.

B.- EQUIPMENT:

Tick them when you leave them on the table.

- > A strip of paper 28 cm long and 1 cm wide
- ➤ A ruler
- A pencil
- > Scissors
- > Glue



C.- SAFETY:

Be careful when you use the scissors.

D.- <u>HYPOTHESIS</u>:

After reading the instructions below, tick the hypothesis that you think is correct or write down another hypothesis.

1 I think I will be able to cut the piece	of paper 30 times	s. That will mear	n that I will
be able to see the last piece of paper.			

Name: Date:

2 I think I will not be able to cut the piece of paper 30 times. That will mean that I	
will not be able to see the last piece of paper.	
3	

E.- INSTRUCTIONS AND DIAGRAM (record the data on part "F" when you do this activity):

- 1.- Cut the strip into two pieces of exactly the same length, and discard one piece.
- 2.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 3.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 4.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 5.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 6.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 7.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 8.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 9.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 10.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 11.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 12.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 13.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 14.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 13.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.

Name: Date:

14.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.

- 15.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 16.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 17.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 18.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 19.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 20.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 21.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 22.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 23.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 24.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 25.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 26.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 27.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 28.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 29.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.
- 30.- Again cut the strip that you didn't discard into two pieces of exactly the same length, and discard one piece.

Name: Date: Diagram F.- RECORDING THE DATA: Stick the leftover piece of paper here Number Strip of cuts length 0 cuts (You haven't got a leftover piece of paper yet) 28 cm 1 cut cm 2 cuts cm 3 cuts cm 4 cuts cm5 cuts cm6 cuts 7 cuts 8 cuts 9 cuts

Name: Date: 10 cuts 11 cuts 12 cuts 13 cuts 14 cuts 15 cuts 16 cuts 17 cuts 18 cuts 19 cuts 20 cuts 21 cuts 22 cuts

23 cuts

24 cuts

25 cuts

Name: Date: 26 cuts 27 cuts 28 cuts 29 cuts 30 cuts **G.-OBSERVATIONS:** H.- CONCLUSIONS:



Activity 1

- **G.-** *I/We* could cut the piece of paper *(number)* times.
 - The last piece of paper is tiny/very small/small/big/very big/enormous/...
- H.- *I/We could/couldn't* see the paper atoms.
 - Atoms are the *smallest/biggest* particle of matter.