

# EARTH EARTH

# WIND WIND

# FIRE FIRE



# EARTH, WIND, AND FIRE RULES



1. EACH CARD IN THE PACK SHOWS A LIST OF DATA AND A SUMMARY ABOUT THE NATURAL EVENT. FOR EXAMPLE, EACH CARD NAMES A NATURAL EVENT AND INCLUDES DATA SUCH AS THE INTENSITY, AMOUNT OF DAMAGE, DEATH TOLL, POWER, AND A BRIEF SUMMARY.
2. ALL THE CARDS ARE DEALT OUT EVENLY TO EACH PLAYER. THERE MUST BE AT LEAST TWO PLAYERS, AND AT LEAST ONE CARD FOR EACH PLAYER.
3. THE STARTING PLAYER SELECTS A CATEGORY FROM HIS OR HER TOP CARD AND READS OUT ITS VALUE. EACH PLAYER THEN READS OUT THE VALUE OF THE SAME CATEGORY FROM THEIR CARD.
4. THE LARGEST VALUE WINS THE TURN, AND THE WINNER TAKES ALL THE CARDS OF THE TURN AND PLACES THEM ON THE BOTTOM OF HIS OR HER TREASURE PILE.
5. THE WINNING PLAYER THEN LOOKS AT THEIR NEW TOP CARD, AND CHOOSES THE NEW CATEGORY FOR THE NEXT ROUND.
6. WE HAVE A SPECIAL "POWER" CATEGORY. HERE'S HOW THAT WORKS:
  - WIND DEFEATS FIRE
  - EARTH DEFEATS WIND
  - FIRE DEFEATS EARTH
7. WHEN THERE'S A TIE, THE CARDS ARE PLACED IN THE CENTER AND A NEW CATEGORY IS CHOSEN FROM THE NEXT CARD BY THE SAME PERSON. THE WINNER OF THAT ROUND KEEPS ALL OF THE CARDS IN THE CENTER AS WELL AS THE TOP CARD FROM EACH PLAYER.
8. PLAYERS ARE DEFEATED WHEN THEY ARE ALL OUT OF CARDS, AND THE WINNER IS THE PLAYER WHO HAS THE WHOLE PACK.
9. WHEN THE GAME IS OVER, RETURN ALL THE CARDS TO THE CARD OWNER.
10. WE HOPE YOU HAVE FUN AND LEARNED ABOUT MOTHER NATURE'S FURY!

# Blizzard of Buffalo



Brrr! The temperature was below zero degrees during the Blizzard of 1977 in Buffalo, NY. The Blizzard of '77 was so intense that it killed 29 people and wounded countless others! The giant Blizzard of '77 had 46-75 mph winds and the snow was 35 inches deep. That's a humongous amount of snow! The damage was a tremendous amount of money -20 million dollars! The snow was so tall it touched a traffic light! Lake Erie froze over by December 14, 1976, an early record. There were snow drifts 30 feet tall, which is enough to bury a house.

## Points

**INTENSITY: 3**

**AMOUNT OF DAMAGE:  
\$20,000,000,000**

**DEATH TOLL: 29**

**POWER: EARTH**

**CREATED BY:  
ZHY'AIRE**

# HURRICANE AGNES



Has your bathtub ever flooded and overflowed? It's probably not as much flooding as Hurricane Agnes! Hurricane Agnes smacked into Wilkes-Barre, PA in 1972. The intensity of this blood-curdling hurricane is a Category 1 on the Saffir-Simpson scale. This dreadful hurricane had the most costly flooding in U.S history. Guess what?! Hurricane Agnes caused 2.1 billion dollars to go down the drain because of the flooding. The hurricane had rushing water that tore out a section of a cemetery leaving body parts on roofs, porches, and basement floors!! Wow! Look at how many deaths and injuries- there were 48 deaths and 140 painful injuries.

## POINTS

**INTENSITY: 2**

**AMOUNT OF DAMAGE:  
\$2,100,000,000**

**DEATH TOLL: 48**

**POWER: WIND**

**CREATED BY:  
WILLIAM**

# Mt. Pelee Volcano



Watch out for that lava and ash shooting from Mt. Pelee! The devastating volcano in Martinique occurred in 1902. This terrifying volcano was a 4 on the Richter scale. Wow! Did you know the number of deaths was about 30,000 people and the only two people left in town were wounded? Mt. Pelee resulted in 16 million dollars in damage. This volcano was the deadliest volcano in the city of Mt. Pelee. Every civilian was killed except for two people.

## Points

**INTENSITY: 10**

**AMOUNT OF DAMAGE:  
\$16,000,000**

**DEATH TOLL: 0**

**POWER: FIRE**

**CREATED BY:  
TINA**

# Fort Worth Texas Thunderstorm



## Points

Pow! Boom! The Fort Worth Texas Thunderstorm frightened people with its yellowish light! At the time, this was the most damaging hail storm to ever hit the United States and it occurred in Fort Worth and Tarrant County, Texas on May 5, 1995. The thunderstorm had 60-70 mph powerful winds and there were 3 inches of rain within 30 minutes—about 6 inches total. The amount of destruction was 1.5 billion dollars from the storm. Wooh! The thunderstorm caused 14 fatalities and there were 100 people injured. The amazing thunderstorm had hail as big as your fist. Wow, that is big!

**INTENSITY: 7**

**AMOUNT OF DAMAGE:  
\$1,500,000,000**

**DEATH TOLL: 14**

**POWER: FIRE**

**CREATED BY:  
SKYE**

# The Chicago Blizzard of 2011



I looked out my window. Boom! My car was not there! It was under the snow from the Blizzard of 2011. This devastating blizzard occurred in Chicago, Illinois in the winter months of 2011. That terrifying blizzard had 50 mph winds and 20 inches of snow fell! WOW! The Blizzard of 2011 resulted in 1 billion dollars in damage. There were 7 deaths and thankfully, no one else was injured. It was the third largest blizzard to ever hit Illinois.

## Points

**INTENSITY: 2**

**AMOUNT OF DAMAGE:  
\$1,000,000,000**

**DEATH TOLL: 7**

**POWER: EARTH**

**CREATED BY:  
SHAYLENE**

# THE SHANXI EARTHQUAKE OF CHINA



Bam! Boom! Crack! Your buggy flips over! This is what happened to many Chinese people on January 23, 1556 during the Shaanxi Earthquake of China. Cha-Ching! Did you know that the earthquake caused 1.5 billion dollars in damage? Awww, there was 830,000 fatalities, many from landslides. This damaging quake was a blood-screaming 8.0 on the Richter scale. This sweet Earthquake drove most of Shaanxi people into caves called yaodongs. That's the China Earthquake of 1556.

## POINT POINTS

**INTENSITY: 8**

**AMOUNT OF DAMAGE:  
\$1,500,000,000**

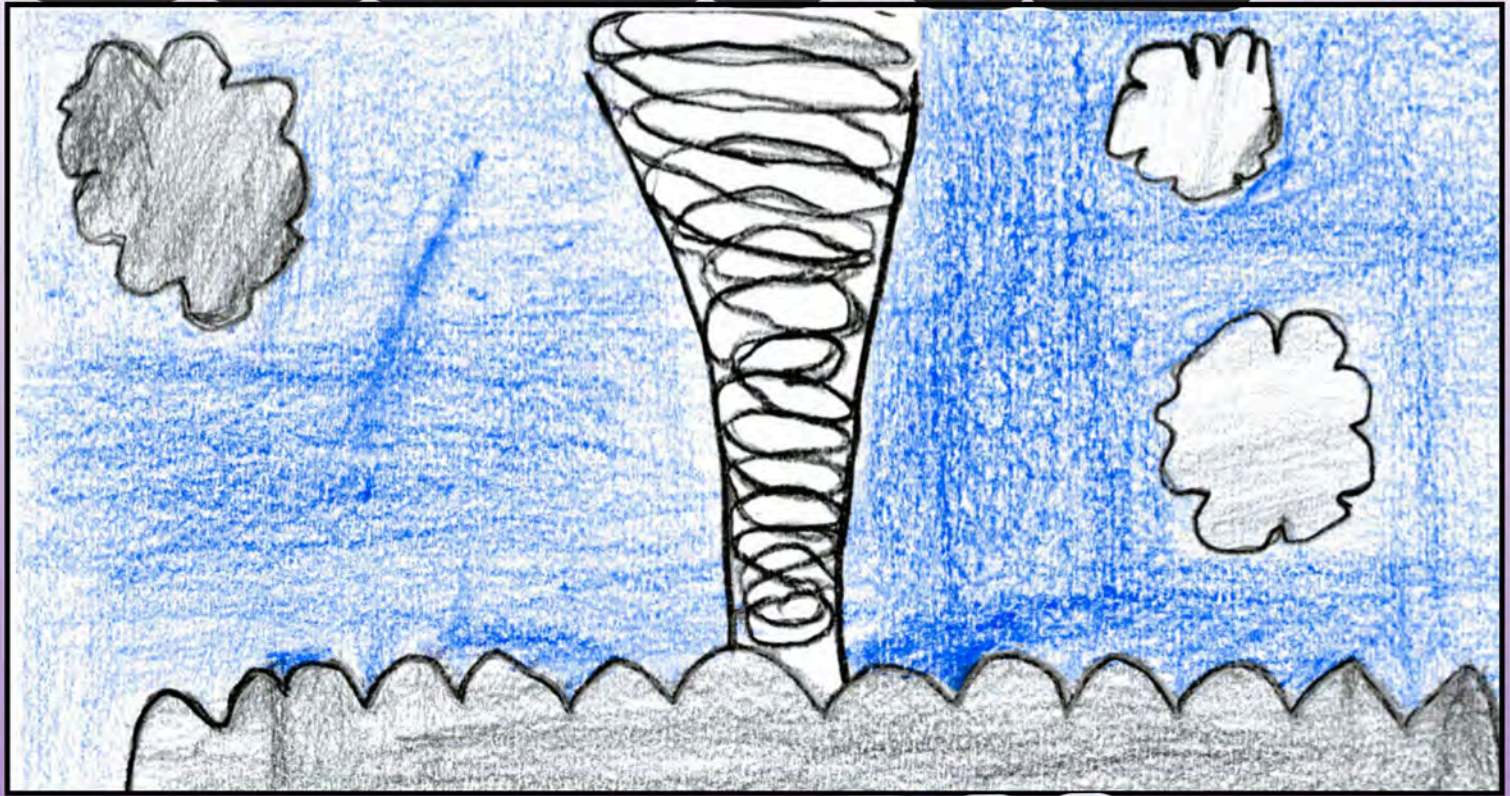
**DEATH TOLL: 830,000**

**POWER: EARTH**

**CREATED BY:  
SAMRIN**



# THE GREAT NATCHEZ TORNADO



## Points

Crash! Did you hear that noise? It's the Great Natchez Tornado attacking Mississippi in 1840. Wow! It was an F5 on the Fujita scale and was the second worst tornado ever. This powerful storm killed 317 people and injured 109 people. This event caused 12 million dollars in damage. It was used to fix buildings, houses, and streets.

**INTENSITY: 10**

**AMOUNT OF DAMAGE:  
\$12,000,000**

**DEATH TOLL: 317**

**POWER: EARTH**

**CREATED BY:  
RODNEY**

# PARADISE LOST OF THE INDIAN OCEAN EARTHQUAKE OF THE INDIAN OCEAN



Crash! Have you seen a big mess? It probably did not look as bad as the Indian Ocean Earthquake of 2004. This powerful event was a 9.2 on the Richter scale. This earthquake had the longest duration of shaking ever; it lasted between 8 – 10 minutes. This earthquake was one of the deadliest natural disasters in history. The amount of damage cost 14 billion dollars in all to repair. The earthquake caused about 230,000 deaths and about 500,000 injuries.

## POINT POINTS

**INTENSITY: 9.2**

**AMOUNT OF DAMAGE:  
\$14,000,000,000**

**DEATH TOLL:  
230,210**

**POWER = EARTH**

**CREATED BY:  
REESE**

# HURRICANE ANDREW



Have you even been blown over by a strong wind? That was not as strong as Hurricane Andrew's big attack on Miami, Florida in 1992. These powerful winds were 177 mph! Can you believe that it was a Category 4 on the Saffir-Simpson scale? The storm surge was an enormous 17 feet deep. 26 billion dollars was spent for repairs on Miami because of Hurricane Andrew. There were no dreadful injuries, but sadly there were 25 deaths!

## POINTS

**INTENSITY: 8**

**AMOUNT OF DAMAGE:  
\$26,000,000,000**

**DEATH TOLL: 25**

**POWER: WIND**

**CREATED BY:  
REBEKAH**

# THE GREAT EASTERN JAPAN EARTHQUAKE



Crash! That was the sound of buildings falling during the Japan Earthquake. Did you know that the Japan Earthquake just took place in 2011? Wow! This powerful quake was a 9.0 on the Richter scale. The destruction cost 300 billion dollars. This lethal earthquake caused 14,133 deaths and harmed 5,304 others. The terrifying earthquake is the most powerful known earthquake to hit Japan, officially named the Great Eastern Japan Earthquake. Another devastating effect is that the earthquake moved Honshu 7.9 feet east and shifted Earth on its axis by almost 3.9 inches.

## POINTING POINTS

**INTENSITY: 9**

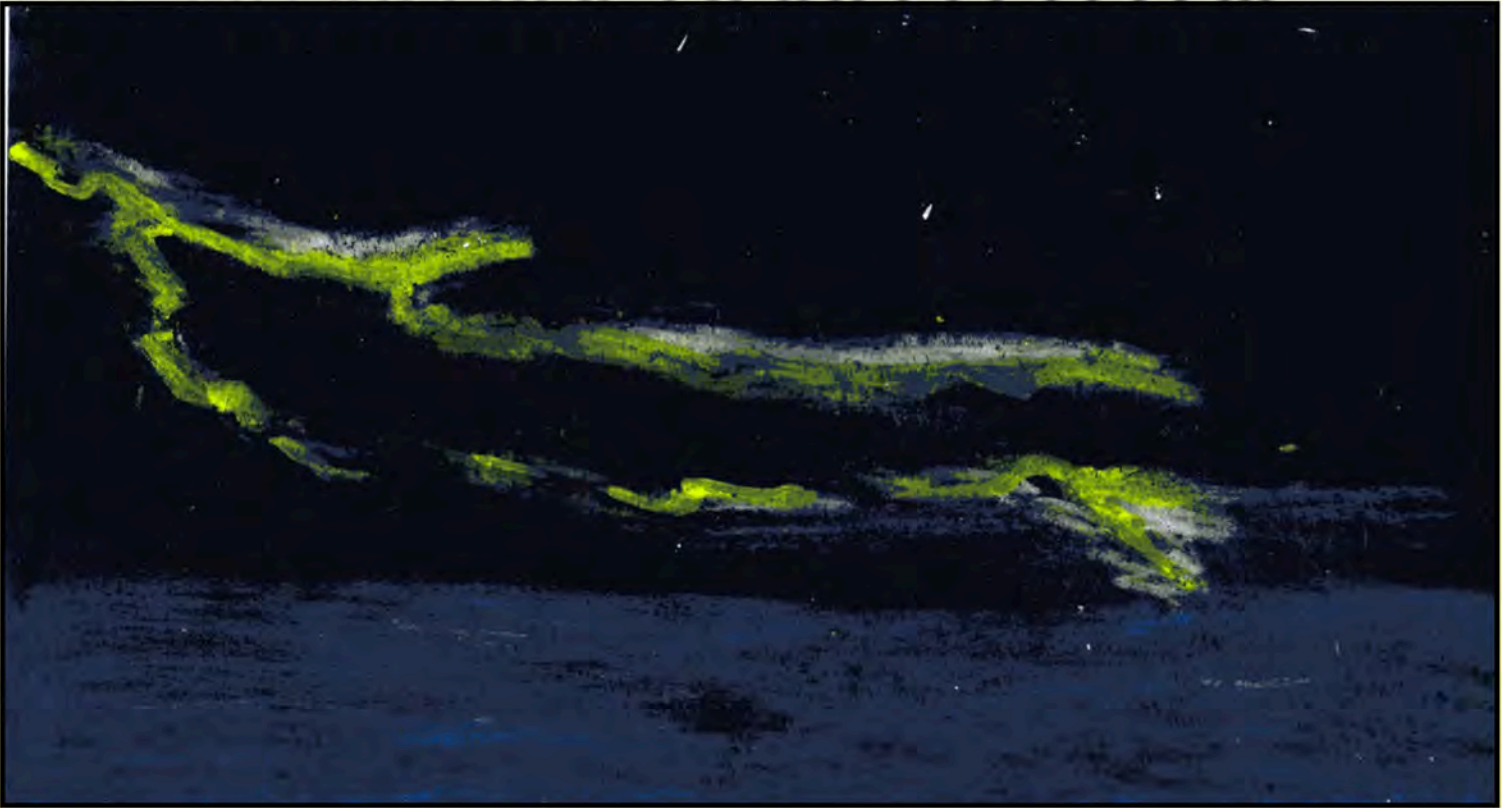
**AMOUNT OF DAMAGE:  
\$ 300,000,000,000**

**DEATH TOLL: 14,133**

**POWER: EARTH**

**CREATED BY:  
RAVEN**

# The Oklahoma Thunderstorm



Crash! Rumble! That thunderstorm made me jump and scared me out of my chair! The Oklahoma and West Texas Thunderstorm happened on March 29, 1993. No one perished and no one got hurt. The fearsome thunderstorm's winds were 70 mph and 3 inches of rain fell. The blaring thunderstorm caused a surprising 2 million dollars in damage. The massive hail was as large as baseballs in Oklahoma. The fierce hail was as large as softballs in Texas. Woo!

## Points

**INTENSITY: 4**

**AMOUNT OF DAMAGE:  
\$2,000,000**

**DEATH TOLL: 0**

**POWER: FIRE**

**CREATED BY:  
QUENTIN**

# THE MINNESOTA BLIZZARD



Brr! The great Blizzard of 1940 occurred in Minnesota. The terrifying wind speed was 75 mph and 27 inches of snow fell. Whoa baby, that's a lot of snow! 154 people died and 377 people got hurt. The Blizzard of 1940 caused 2.2 million dollars in damage. The storm lasted two days. The huge snow cut a 1,000 mile wide path through the middle of the United States.

## Points

**INTENSITY: 2**

**AMOUNT OF DAMAGE:  
\$2,200,000**

**DEATH TOLL: 154**

**POWER: EARTH**

**CREATED BY:  
NATHANIEL**

# PARM IBI IAVE OF IIAI EARTHQUAKE OF HAITI



Boom! Did you know that earthquakes can be lethal? The earthquake in Haiti caused over 316,000 deaths and 300,000 injuries in 2010. This deadly earthquake was a 7.0 on the Richter scale. Can you believe that the devastating earthquake caused about 13 million dollars in damage!? This earthquake was the worst in 200 years even though it only struck a 10 mile area.

## POINT POINTS

**INTENSITY: 7**

**AMOUNT OF DAMAGE:  
\$13,000,000**

**DEATH TOLL:  
316,000**

**POWER: EARTH**

**CREATED BY:  
NYAISHA**

# Mt. Saint Helens Volcano



## Points

Boom! Mt. Saint Helens blew its top off in 1980 in Washington. This dangerous event was a 5.1 on the Richter scale. Did you know that this destructive event created the largest landslide in history and its mudflows damaged 27 bridges and 200 homes? The damage from this volcano cost 1 billion dollars to repair. The ash cloud from this eruption drifted east across the United States for three days. This deadly volcano killed 57 people, but injured no one.

**INTENSITY: 5.1**

**AMOUNT IN DAMAGE:  
\$1,000,000,000**

**DEATH TOLL: 57**

**POWER: FIRE**

**CREATED BY:  
NATALIE**



# The SE Texas and S Louisiana Thunderstorm



Flash! A lightning strike is bright and beautiful, but if it touches you, you're dead meat! Yikes! Speaking of lightning, the lightning of the Southeast Texas and Southern Louisiana Thunderstorm struck seven people. The flashing and dashing Southeast Texas and Southern Louisiana Thunderstorm of May 1990 caused a pouring 6 inches of rain and had fierce 70 mph winds. 70 mph winds - that's almost as fast as a hurricane's winds! And you won't believe the size of that hail, I'm talking golf ball sized. Did you know it made seven tornadoes?! WOW! This powerful thunderstorm caused no deaths and seven injuries; there was one hundred thousand dollars worth of damage.

## Points

**INTENSITY: 7**

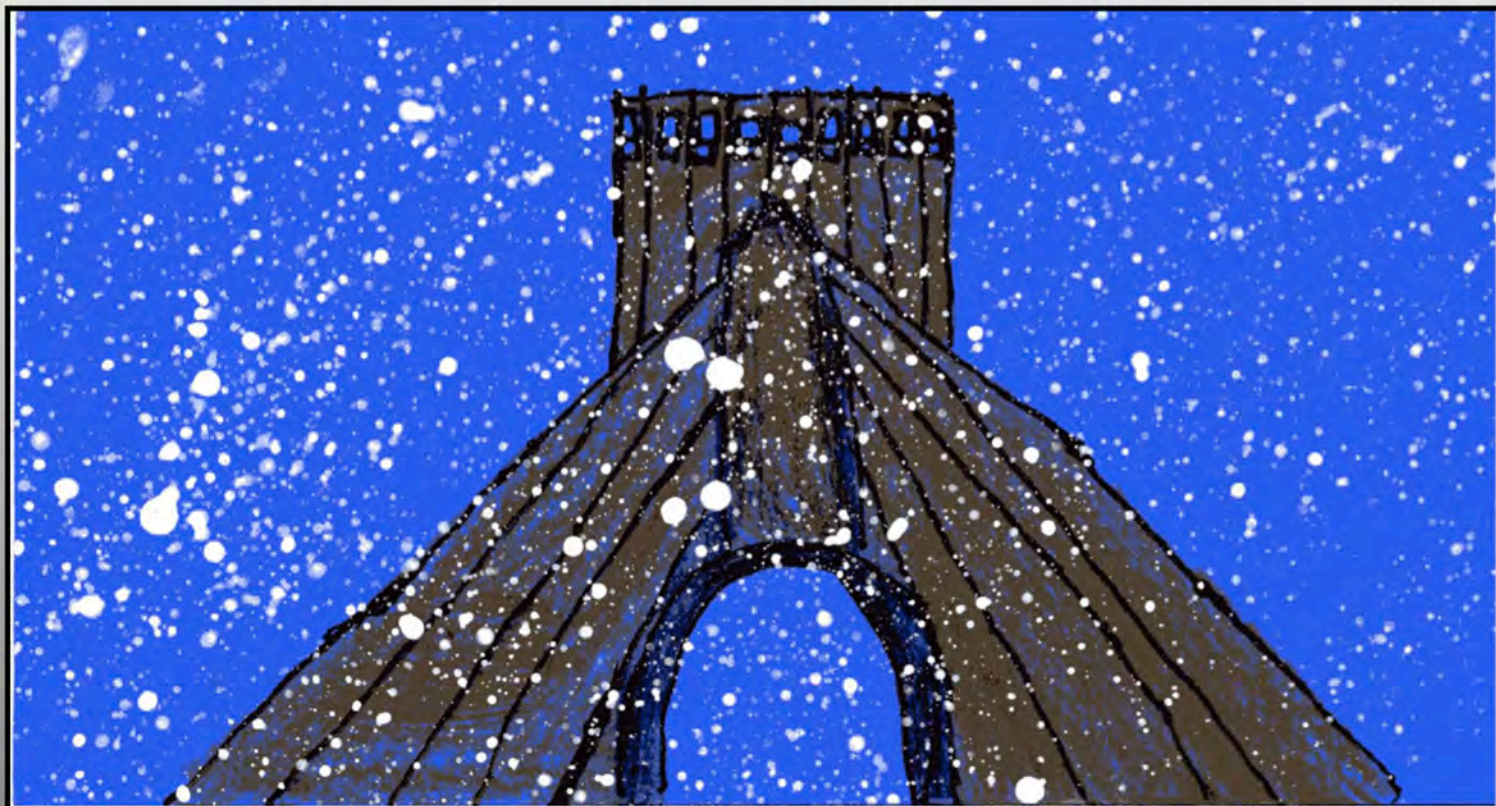
**AMOUNT OF DAMAGE:  
\$100,000**

**DEATH TOLL: 0**

**POWER: FIRE**

**CREATED BY:  
NADAE**

# The Blizzard of Iran



Snow! How did that snow get through the window? It probably came out of the sky from the Blizzard of 1972! This tremendous blizzard took place in the country of Iran. It caused 4,000 people to pass away because they were buried by snow and 1,000 more people to be harmed. The amount of destruction caused by the blizzard was 4 million dollars. The gigantic blizzard of 1972 was the deadliest blizzard ever and caused 26 feet of snow. Whoa baby! Also, the blizzard lasted 7 days. That's a long time!

## Points

**INTENSITY: 10+**

**AMOUNT OF DAMAGE:  
\$4,000,000**

**DEATH TOLL: 4,000**

**POWER: EARTH**

**CREATED BY:  
MELANIE**

# HURRICANE HUGO



Swish! Did you feel those strong winds from Hurricane Hugo? Well, you probably did because your house is gone! The date of this natural event was 1989 and the location was Charleston, South Carolina. The intensity is measured on the Saffir-Simpson scale and was a Category 5. The amount of damage caused was 10 billion dollars. The deaths caused from Hugo was 50 people. Hurricane Hugo was the most damaging hurricane ever on record. It made land break off! Hugo was the most intense, blood-curdling hurricane to strike Georgia and the Carolinas in the last 100 years!

## POINTS

**INTENSITY: 10**

**AMOUNT OF DAMAGE:  
\$10,000,000,000**

**DEATH TOLL: 50**

**POWER: WIND**

**CREATED BY:  
MARIANA**

# The Labor Day Thunderstorm



Flash! Have you ever seen a huge lightning bolt? There were many of these in the sky during the Labor Day Thunderstorm of 1998. 3,000 trees were blown over and 1,000 homes and businesses were destroyed. Can you believe this event caused 130 million dollars in damage? This terrible storm caused 142 fatalities and 11 injuries. This dangerous event's wind speed was 115 mph and it dumped 8.5 inches of rain on the ground below.

## Points

**INTENSITY: 9.5**

**AMOUNT OF DAMAGE:  
\$130,000,000**

**DEATH TOLL: 142**

**POWER: FIRE**

**CREATED BY:  
MARCUS**

# Daultipur-Salturia Tornado



Did you know that a tornado started with thunderstorms? The Daultipur-Salturia Tornado had lots of lightning and thunder in Bangladesh in 1989. This powerful tornado was an F5 on the Fujita scale, and was the worst tornado ever in this area. The cost of the damage from this nasty and terrible tornado is about one million dollars. This destructive tornado injured 1,200 people and killed 1,300 people.

## Points

**INTENSITY: 10**

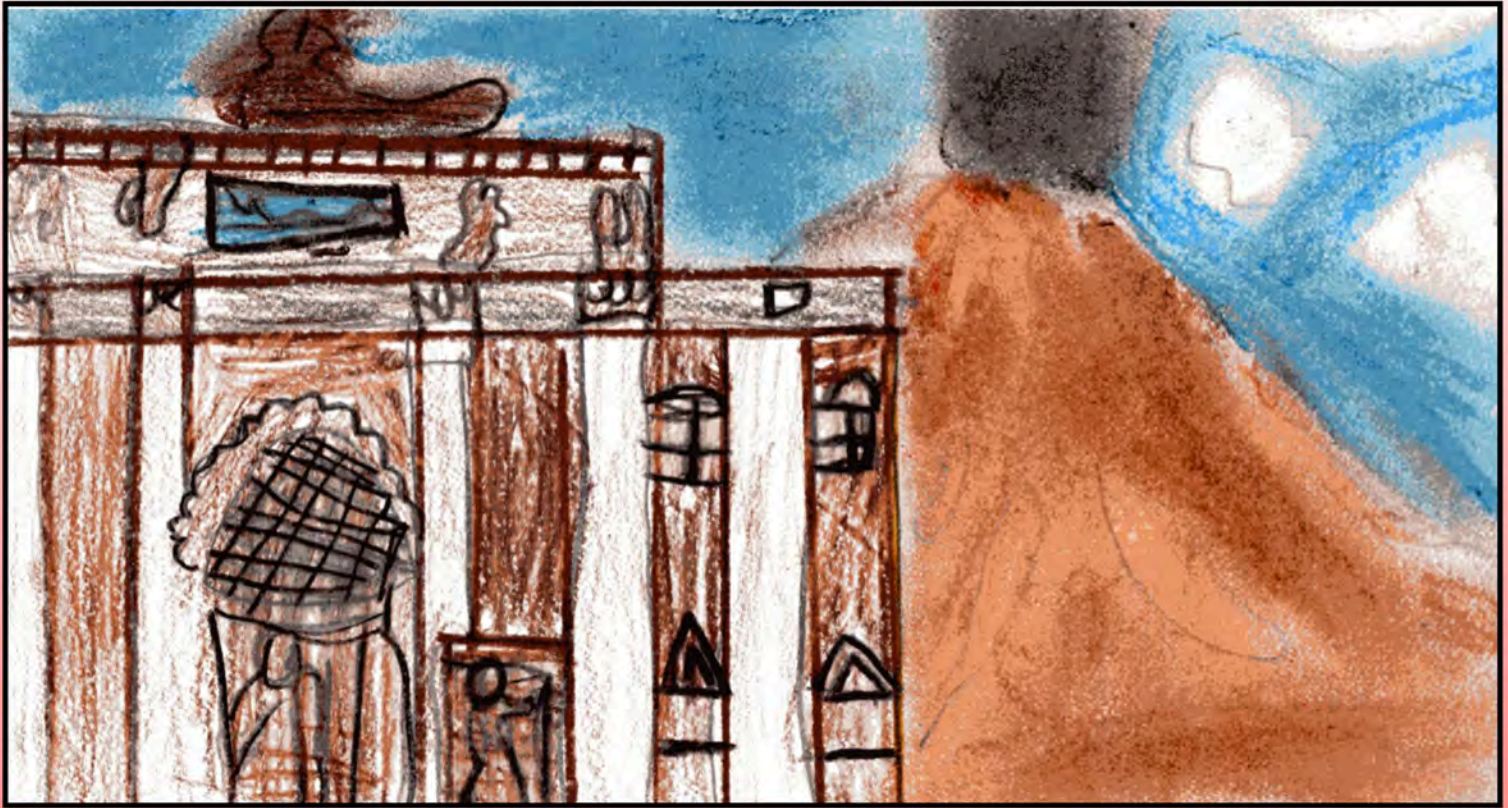
**AMOUNT OF DAMAGE:  
\$1,000,000**

**DEATH TOLL:  
1,300**

**POWER: WIND**

**CREATED BY:  
MACHAI**

# Mt. Vesuvius Volcano



Boom! That was the noise heard when Mt. Vesuvius blew its top in 79 AD in Italy. Mt. Vesuvius was formed by two tectonic plates, the African and Eurasian. This powerful volcano killed 16,000 people the first day and 2,000 to 3,000 people the second day. Sadly, no one from the towns below survived. This natural event was a 5.8 on the Richter scale. Did you know that Mt. Vesuvius caused 36 million dollars in damage?

## Points

**INTENSITY: 5.8**

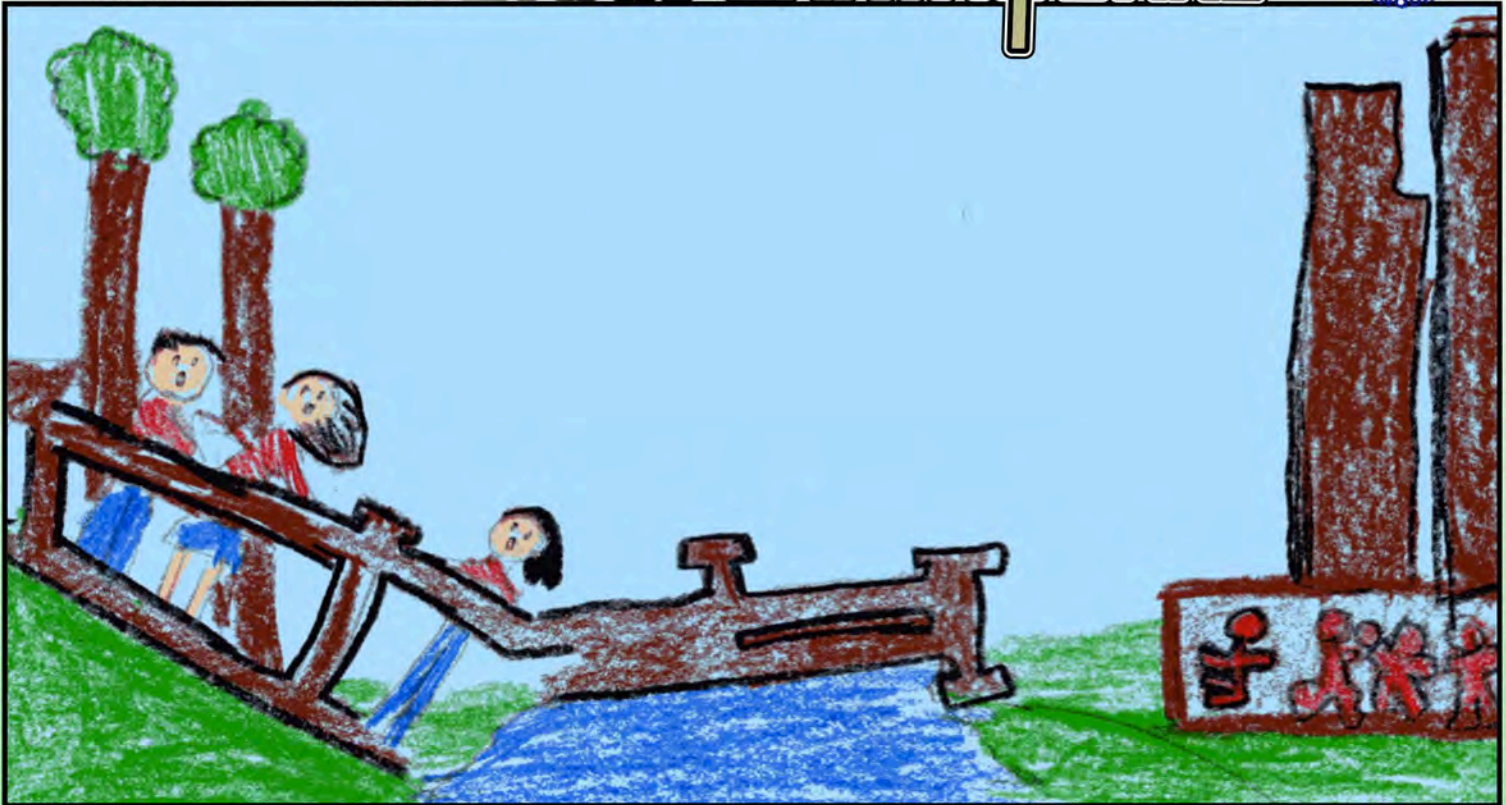
**AMOUNT OF DAMAGE:  
\$36,000,000**

**DEATH TOLL:  
18,000**

**POWER: FIRE**

**CREATED BY:  
KAYLA**

# TOP DAMAGIAN PAINFUL AND THE DAMAGIAN EARTHQUAKE



## POINTING POINTS

Shakalaka boom boom went the buildings in the Iran Earthquake that happened in Damghan, Iran on December 22, 1856. The enormous earthquake was a powerful 7.9 on the Richter scale. Wow! Did you know that the earthquake caused a whopping 200,000 deaths and 400,000 injuries? Can you believe the incredible earthquake caused 7 billion dollars of damage? The giant earthquake made it to #5 on the list of the world's deadliest earthquakes ever recorded.

**INTENSITY: 7.9**

**AMOUNT OF DAMAGE:  
\$7,000,000,000**

**DEATH TOLL: 200,000**

**POWER: EARTH**

**CREATED BY :  
KATIE**

# North Carolina Blizzard of 2000



Whoosh! Have you ever been in a blizzard with 25 inches of snow? A terrible blizzard hit North Carolina in 2000 and unloaded 25 inches of snow. This destructive event was the most powerful winter storm to hit the state of North Carolina in 42 years! It cost 4 million dollars to repair the damage this horrible blizzard caused. 399,000 people lost power. Thankfully, there were no injuries or deaths.

## Points

**INTENSITY: 2**

**AMOUNT OF DAMAGE:  
\$4,000,000**

**DEATH TOLL: 0**

**POWER: EARTH**

**CREATED BY:  
KAMERIN**



# THE BIG THOMPSON THUNDERSTORM



Crack! Boom! You just heard a giant crash from the Big Thompson Thunderstorm. The powerful thunderstorm took place in Colorado on July 31<sup>st</sup>, 1976. The terrifying thunderstorm caused 8.5 inches of rain and 50 mph winds. The fatalities caused by the Big Thompson Thunderstorm were 145 people and there were no other injuries. The fearsome Big Thompson Thunderstorm caused 6 people to not ever be found! The destruction caused by the thunderstorm was 40 thousand dollars in damage. Another effect of the thunderstorm was there was water more than 6 meters deep. WOW, that's a lot of water!

## Points

**INTENSITY: 9.5**

**AMOUNT OF DAMAGE:  
\$40,000**

**DEATH TOLL: 145**

**POWER: FIRE**

**CREATED BY:  
JOSIYAH**

# Glazier Higgins Woodward Tornado



Crash! Did you know that a tornado can make a sound like whoosh? It can also make a house crash! That's what happened during the Glazier Higgins Woodward Tornado. The tornado appeared in Texas, Oklahoma, and Kansas in 1947. Cha ching! The Glazier Higgins Woodward Tornado caused 727,750,000 dollars worth of damage. Wow, that is a lot! The giant tornado was an F5 on the Fujita scale! That's destructive! There were 970 injuries and 181 deaths. Can you believe a tornado can cause so much damage? This terrifying tornado was #6 deadliest in U.S. history. Finally, when Glazier Higgins Woodward Tornado struck the tiny town of Glazier, it may have been as much as two miles wide.

## Points

**INTENSITY: 10**

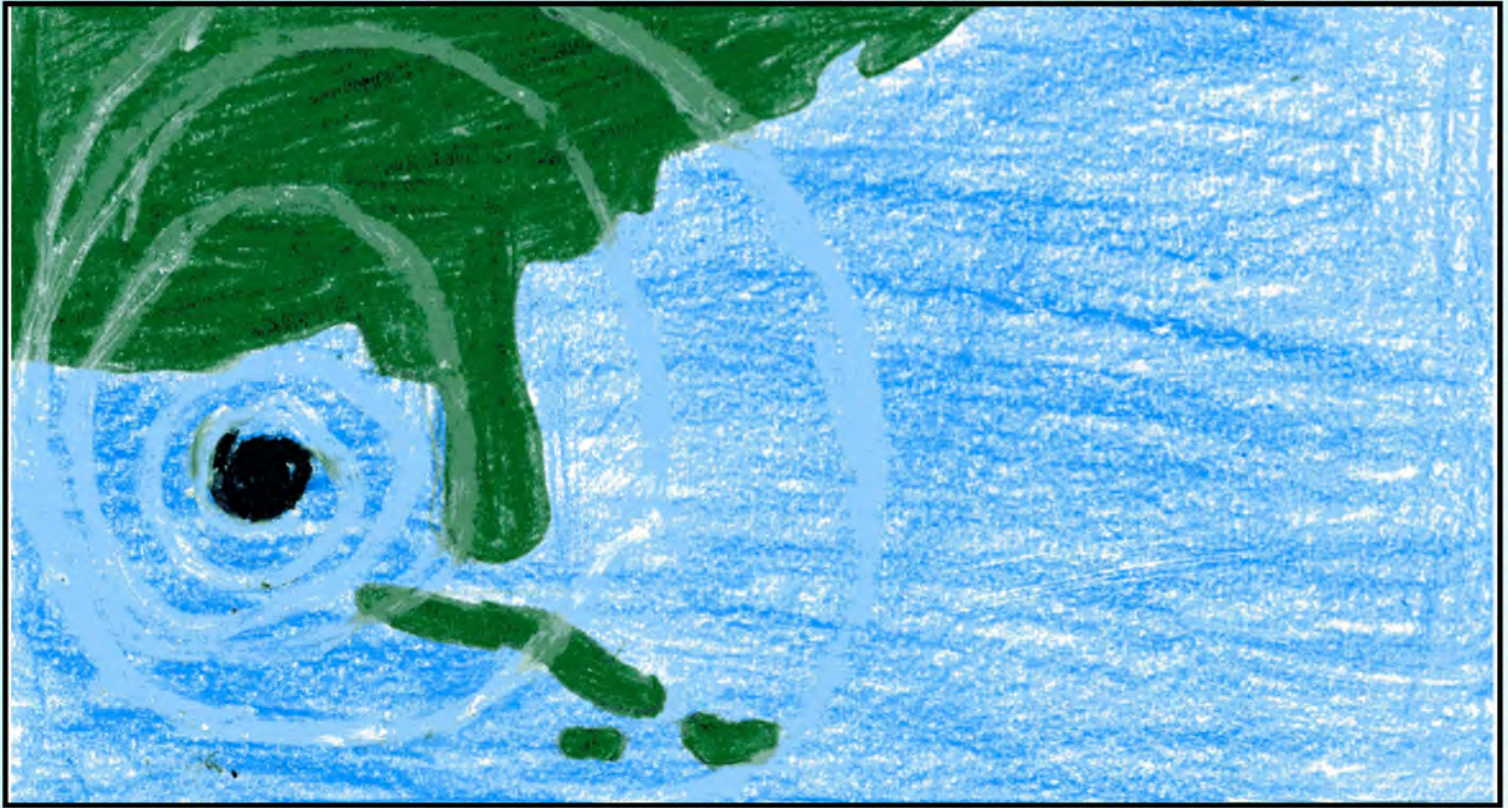
**AMOUNT OF DAMAGE:  
\$727,750,000**

**DEATH TOLL: 181**

**POWER: WIND**

**CREATED BY:  
JOHN**

# HURRICANE CAMILLE



Yikes! Did you see that smashed house? Hurricane Camille occurred in 1969 in Mississippi. Hurricane Camille was a Category 5 on the Saffir-Simpson scale and caused approximately \$1.4 billion dollars in damage. Camille's storm surge was big enough to submerge two-story houses! There were 79,000 homes and businesses ruined in the hurricane. Hurricane Camille killed 258 people and 68 people were missing. Hurricane Camille is number 7 of the top 10 worst storms in the U.S.!

## POINTS

**INTENSITY: 10**

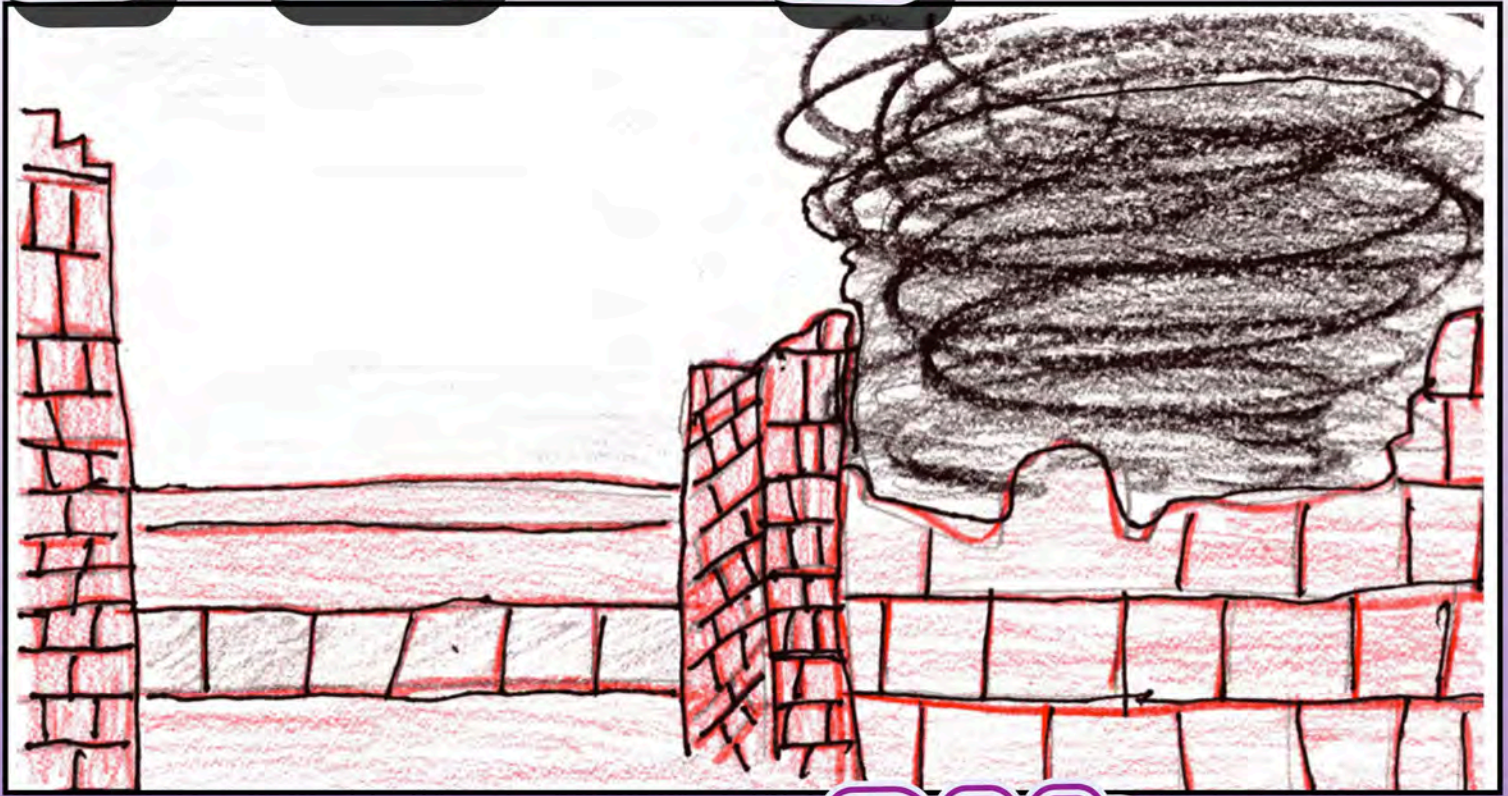
**AMOUNT OF DAMAGE:  
\$1,400,000,000**

**DEATH TOLL: 258**

**POWER: WIND**

**CREATED BY:  
JOEY**

# The Tupelo Tornado



Wow! Did you see that house fly away? The Tupelo Tornado made many houses and buildings fall down. Woo! The Tupelo Tornado developed in Mississippi in 1936. The great powerful tornado was an F4 on the Fujita scale. Boom! Did you know that the Tupelo Tornado cost 13 million dollars in damage? That is a lot of money! The Tupelo Tornado deaths were over 100 people. Elvis Presley and his mother survived this tornado. The Tupelo Tornado was the 17th most deadly tornado that struck the southeastern part of the United States.

## Points

**INTENSITY: 8**

**AMOUNT OF DAMAGE:  
\$13,000,000**

**DEATH TOLL: 233**

**POWER: WIND**

**CREATED BY:  
JESHUA**

# HURRICANE GLORIA



Do you know someone who stepped outside one second and got soaked the next? That's what happened to many people during Hurricane Gloria. The enormous Hurricane Gloria arrived on Long Island, NY in 1985. This damaging and massive hurricane was so fearsome it was a Category 4 on the Saffir-Simpson scale. Wow! Can you believe Gloria caused 900 million dollars in damage? The bad news is there were 8 deaths but happily 0 injuries. Gloria lasted for 12 powerful days. The winds reached 145 mph, isn't that a lot? It must have been hard for people to step in 8 to 12 feet of water!

## POINTS

**INTENSITY: 8**

**AMOUNT OF DAMAGE:  
\$900,000,000**

**DEATH TOLL: 8**

**POWER: WIND**

**CREATED BY:  
J'ANNA**

# THE POWERFUL EARTHQUAKE OF CHILE



Everybody's running in fear! Boom! Crash! This is what it was like when a powerful earthquake hit the Maule Region of Chile on February 27, 2010. Can you believe that this powerful earthquake of Chile was an 8.8 on the Richter scale? This earthquake moved a whole city 10 feet to the west. The damage in this earthquake cost 67 million dollars to repair. This tragic earthquake caused 12,000 injuries and killed 562 people.

## POINT POINTS

**INTENSITY: 8.8**

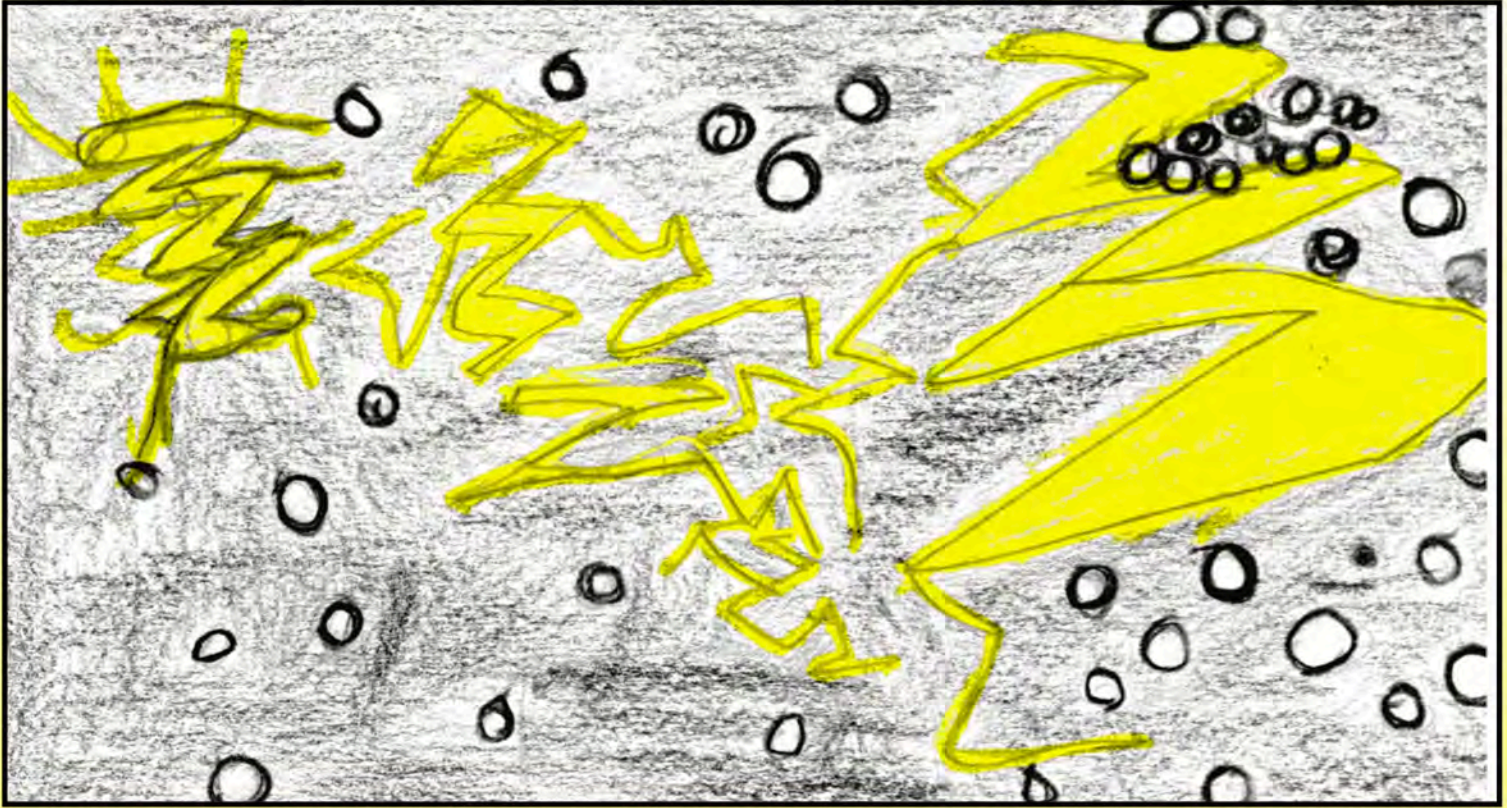
**AMOUNT OF DAMAGE:  
\$67,000,000**

**DEATH TOLL: 562**

**POWER: EARTH**

**CREATED BY:  
JANIIAH**

# The Texas and Arkansas Thunderstorm



Cracka! Cracka! The thunderstorm of Northeastern Texas and Arkansas made bad noises! The thunderstorm struck Longview, Texas on August 30, 1987. The harmful storm wounded 70 people but nobody died. The Thunderstorm of Northeastern Texas and Arkansas was damaging and it caused 14 inches of hail and rain to fall. The thunderstorm caused 16 million dollars in damage. There were people stuck in trees from all the flooding. WOW, that's crazy!

## Points

**INTENSITY: 10**

**AMOUNT OF DAMAGE:  
\$16,000,000**

**DEATH TOLL: 0**

**POWER: FIRE**

**CREATED BY:  
JAHILIL**

# The Super Outbreak Tornado



## Points

Whoa! Did you see the trees and cars get sucked up by that vortex? Boom! The Super Outbreak Tornado appeared in the United States and Canada in 1974. Crack! This lethal tornado exterminated 315 civilians and wounded 5,000 others. Have you ever felt the destruction of 3.15 billion dollars? Probably not, but the Super Outbreak Tornado generated this! Some children were in school and some adults were at their jobs when the tornado struck. The fearsome tornado was an F4 on the Fujita scale. That is pretty massive! 148 tornadoes appeared on the same day. Spinning columns of air traveled across the heartland with such strong winds.

**INTENSITY: 8**

**AMOUNT OF DAMAGE:  
\$3,150,000**

**DEATH TOLL: 315**

**POWER: WIND**

**CREATED BY:  
JABRIEL**



# BLIZZARD OF 1949



Brrr! Did you know that blizzards can create a lot of snow like the Wyoming and Colorado Blizzard? This horrible blizzard happened in 1949. This powerful blizzard had strong winds that were 50-70 mph and an amazing 7 feet of snow. This tragic blizzard killed 33 people and gave 200 people frostbite. One cool fact is that it kept snowing for 7 weeks, lasting from January 7th to February 19th. Another cool fact is that there were about 32-40 inches of snow. Can you believe this event caused 250 million dollars in damage?

## Points

**INTENSITY: 7**

**AMOUNT OF DAMAGE:  
\$250,000,000**

**DEATH TOLL: 33**

**POWER: EARTH**

**CREATED BY:  
HILLARY**

# The Gainesville Tornado



Pitter-patter! Boom! Whoosh! Did you know hail stones and lightning started off the Gainesville Tornado of 1936 in Georgia? This terrible tornado was an F4 on the Fujita scale with 206-260 mph wind speeds. About 14 million dollars was spent for repairs in the tornado area. This horrible tornado caused a dreadful 203 fatalities and nearly 1,600 injuries. Did you know Franklin Roosevelt helped people recover after the tornado and that part of the tornado hit Mississippi?

## Points

**INTENSITY: 8**

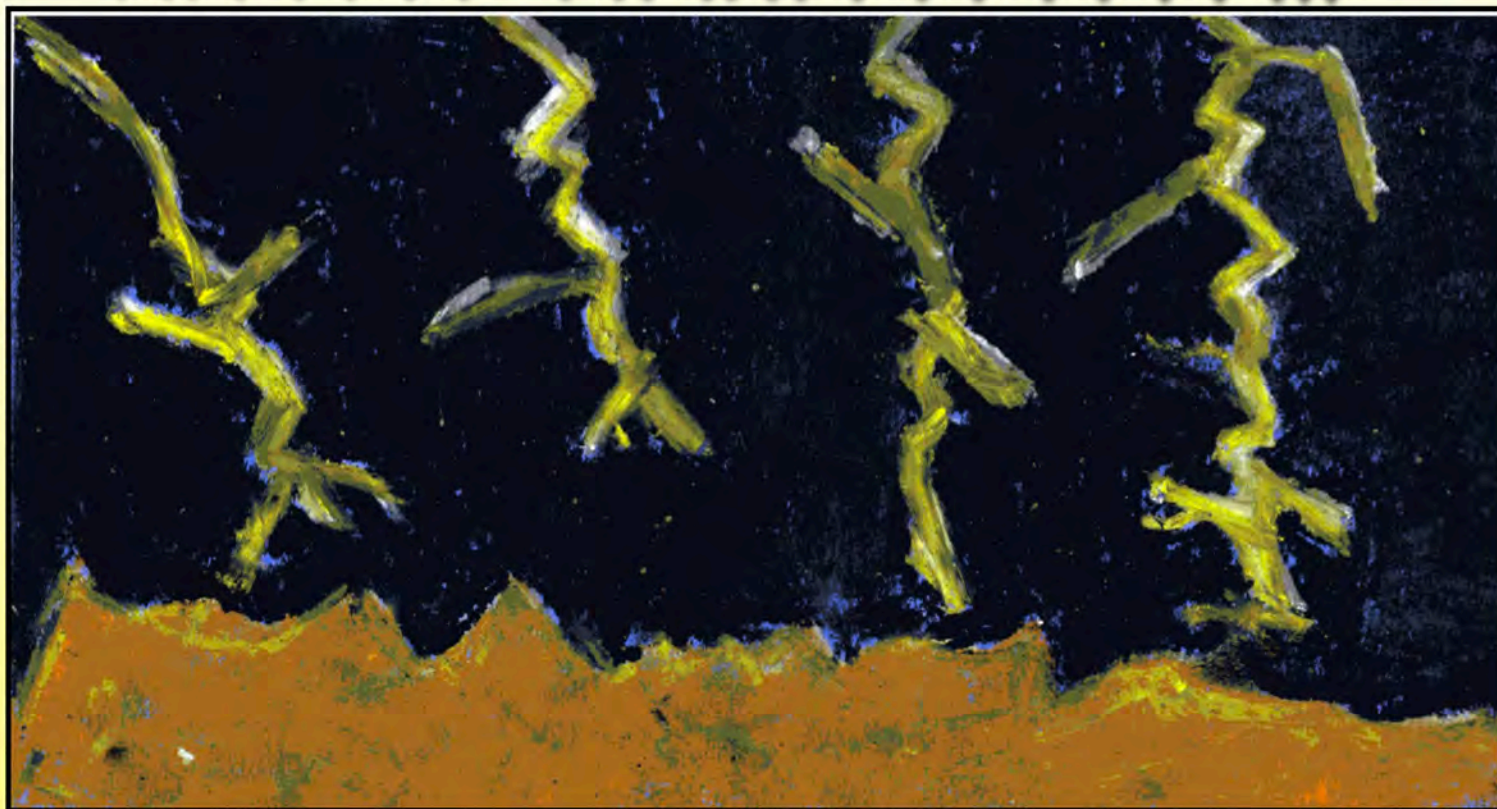
**AMOUNT OF DAMAGE:  
\$13,500,000**

**DEATH TOLL: 203**

**POWER: WIND**

**CREATED BY:  
HARRISON**

# Chester Thunderstorm



Boom craka-craka! That was the sound of the Chester Thunderstorm attacking North Carolina and Virginia. This powerful thunderstorm dropped 2.5 inches of rain on April 2, 1990. This terrible storm had golf ball-sized hail and even caused 8 inches of snow in Michigan. This thunderstorm's damage cost five hundred thousand dollars to repair. Thankfully, there were no deaths or injuries.

## Points

**INTENSITY: 3.5**

**AMOUNT OF DAMAGE:  
\$500,000**

**DEATH TOLL: 0**

**POWER: FIRE**

**CREATED BY:  
FAIRIS**

# Mauna Loa Volcano



WOW! Look at that crazy lava from the Mauna Loa Volcano! BOOM! The Mauna Loa eruption occurred in 1950 on the island of Hawaii. The powerful volcano was a 6.0 on the Richter scale. The volcano was destructive to Hawaii, causing 62 million dollars in damage. That's sad! There were 500,000 deaths in Hawaii from the volcano. The name Mauna Loa means "long volcano" and it was the loudest volcano in Hawaii. Mauna Loa is the biggest shield volcano in the world and it's on the big island of Hawaii.

## Points

**INTENSITY: 10+**

**AMOUNT OF DAMAGE:  
\$62,000,000**

**DEATH TOLL:  
500,000**

**POWER: FIRE**

**CREATED BY:  
EDDIE**

# THE PARADOXICAL DANCE OF CHINA THE EARTHQUAKE OF CHINA



Have you ever seen a huge crack in the middle of the street? I bet that it wasn't bigger than the one caused by the Earthquake in China. The Tangshan, China Earthquake happened on July 28, 1976. It began at 3:42 am. This powerful earthquake's intensity was an 8.6 on the Richter scale and cost one million dollars in damage. This tragic earthquake killed 750,000 people and injured 164,000.

## POINT POINTS

**INTENSITY: 8.6**

**AMOUNT OF DAMAGE:  
\$1,000,000**

**DEATH TOLL:  
750,000**

**POWER: EARTH**

**CREATED BY:  
DORIAN**

# Tri-State Tornado



## Points

Boom! Kapow! The debris from the Tri-State Tornado crashed into buildings and cars! The Tri-State Tornado took place in Missouri, Illinois, and Indiana in 1925. On the Fujita scale it was an F5. That was an enormous tornado! 695 people were killed and 2,027 people were injured. The amount of destruction from the Tri-State Tornado was 500,000 dollars! This tornado lasted for 3 and half hours—that is a long time!

**INTENSITY: 10**

**AMOUNT OF DAMAGE:  
\$500,000**

**DEATH TOLL: 695**

**POWER: WIND**

**CREATED BY:  
DONALD**

# The Blizzard of China



Have you ever been buried by snow? Yikes! The powerful Blizzard of China happened in 2008! It dumped 22 feet of snow! This destructive blizzard killed 17 people and 101 were injured. This tragic storm caused 6 million dollars in damage. Blizzards are dangerous and can give you frostbite.

## Points

**INTENSITY: 10+**

**AMOUNT OF DAMAGE:  
\$6,000,000**

**DEATH TOLL: 17**

**POWER: EARTH**

**CREATED BY:  
DESTINY**

# The Krakatoa Volcano



Kaboom! That's the sound of Krakatoa blowing its top! The Krakatoa Volcano erupted in 1883 in Krakatoa, Indonesia. The intensity of this dangerous volcano was a 7.7 on the Richter scale! The damage in this event cost 1.5 million dollars to fix. This tragic volcano killed 40,000 people and injured 80 others! This volcanic eruption is considered to be the loudest sound ever heard in modern history.

## Points

**INTENSITY: 8.7**

**AMOUNT OF DAMAGE:  
\$1,500,000**

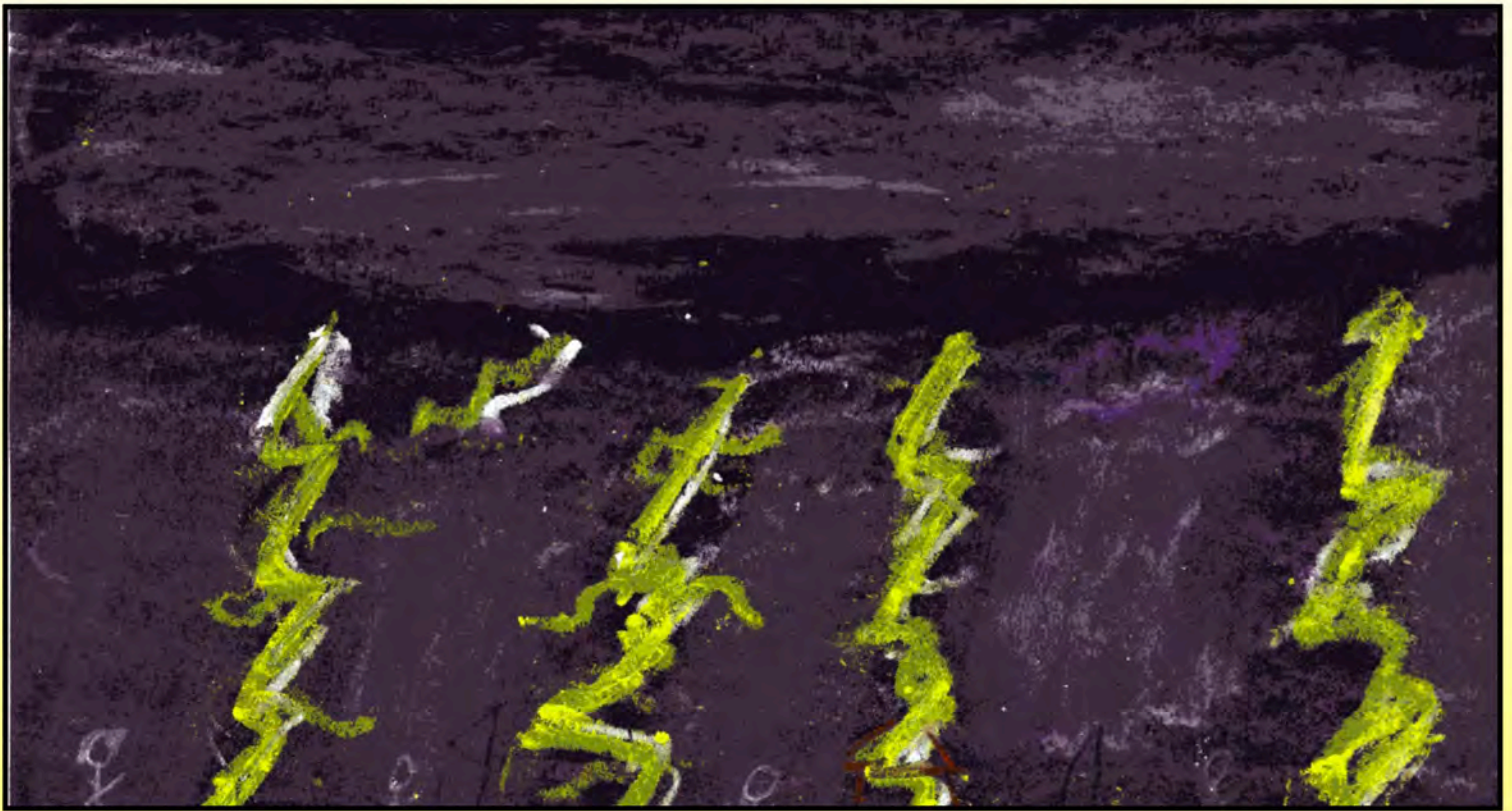
**DEATH TOLL:  
40,000**

**POWER: FIRE**

**CREATED BY:  
DARIELIZ**



# Mississippi Thunderstorms



Did you see the lightning in the sky? You did not see more lightning than in the 1987 Mississippi and Louisiana Thunderstorm. The Mississippi and Louisiana Thunderstorm attacked Mississippi and Louisiana. This dangerous thunderstorm had wind speeds up to 92 mph and rain about 5 inches deep. The amount of damage that this event made cost one million dollars for repair. This dreadful event caused 12 injures and 0 deaths.

## Points

**INTENSITY: 6**

**AMOUNT OF DAMAGE:  
\$1,000,000**

**DEATH TOLL: 0**

**POWER: FIRE**

**CREATED BY:  
DAJAH**

# HURRICANE GILBERT



Yikes! Hurricane Gilbert shifted that lady's house with its powerful winds! The threatening Gilbert smacked into Jamaica in 1988. The value of damage from the hurricane was 5.5 billion dollars. Hurricane Gilbert was a Category 5 on the Saffir-Simpson scale. That's terrifying! 433 people perished and 6,381 people were injured. Another detrimental effect of Gilbert was that it caused 1.2 billion dollars in damage to livestock and tourism. Wow!

## POINTS

**INTENSITY: 10**

**AMOUNT OF DAMAGE:  
\$5,500,000,000**

**DEATH TOLL: 433**

**POWER: WIND**

**CREATED BY:  
COREY**

# TOP VALDIVIA CHILE EARTHQUAKE



BOOM! Rumble! Roll! The Valdivia, Chile Earthquake took place on May 22, 1960. The earthquake was a terrible 9.5 on the Richter scale. The earthquake was so hurtful that it caused 56 million dollars in damage! The quake caused 3,000 injuries and 1,655 fatalities. Something interesting about the massive earthquake is that 2,000,000 people were left homeless. In addition, this was the largest earthquake of the 20th century. The earthquake created a large tsunami that caused damage along the coast and 61 deaths.

## POINT POINTS

**INTENSITY: 9.5**

**AMOUNT OF DAMAGE:  
\$56,000,000**

**DEATH TOLL: 1,655**

**POWER: EARTH**

**CREATED BY:  
CHANNING**

# THE EYJAFAJALLAJOKULL VOLCANO



Whoosh, oh no! Hot lava didn't just touch my face, it was actually the Eyjafajallajokull exploding in 2010 in Iceland. The destructive Eyjafajallajokull Volcano was a 3 on the Richter scale. Thankfully, there were no deaths and no injuries. This volcano caused one million dollars in damage, and it caused a total shutdown of airspace over many European nations for five days. This volcano caused the largest loss in air travel industry history.

## Points

**INTENSITY: 4**

**AMOUNT OF DAMAGE:  
\$1,000,000**

**DEATH TOLL: 0**

**POWER: FIRE**

**CREATED BY:  
BRIELLE**

# HURRICANE KATRINA



SWISH! Have you ever been outside one minute and soaked the next? That's not even close to the storm surge in Hurricane Katrina, rising 20 feet high! That's what happened when Hurricane Katrina struck in 2005 in New Orleans, Louisiana. The fastest wind speed was near 125 mph. This devastating hurricane was a Category 5 on the Saffir-Simpson scale. This horrible hurricane caused 1,300 deaths and 1,836 injuries. The cost of the damage was about 18 billion dollars. It was years before the cost of Hurricane Katrina was known.

## POINTS

**INTENSITY: 10**

**AMOUNT OF DAMAGE:  
\$18,000,000,000**

**DEATH TOLL: 1,300**

**POWER: WIND**

**CREATED BY:  
ARABELLA**

# St. Louis Tornado



## Points

Did you ever see a tornado blow a house upside down before? The St. Louis Tornado was in Missouri and Illinois in the horrifying year of 1896. The terrifying St. Louis Tornado caused 137 people to die. There were a lot of injuries in St. Louis. At least 1,000 people got hurt. Can you believe the total cost of damage from the St. Louis Tornado was 10 million dollars? The tornado was an F4 on the Fujita Scale. The powerful tornado was the worst tornado ever in the urban area of St. Louis, Missouri.

**INTENSITY: 8**

**AMOUNT OF DAMAGE:  
\$10,000,000**

**DEATH TOLL: 137**

**POWER: WIND**

**CREATED BY:  
AMARIA**

# Mt. Tamboura Volcano



Boom! Have you ever heard a loud crash? It may have hurt your ears but it wasn't as loud as the Mt. Tamboura eruption in 1815. This tragic natural event had 145 injuries and killed about 90,000 people. The damage in this event cost 56 million dollars to repair. The intensity of this powerful volcano was a 7 on the Richter scale.

## Points

**INTENSITY: 8**

**AMOUNT OF DAMAGE:  
\$56,000,000**

**DEATH TOLL:  
50,000 - 90,000**

**POWER: FIRE**

**CREATED BY:  
AMANI**

# Mt. Tamboura Volcano



Boom! Have you ever heard a loud crash? It may have hurt your ears but it wasn't as loud as the Mt. Tamboura eruption in 1815. This tragic natural event had 145 injuries and killed about 90,000 people. The damage in this event cost 56 million dollars to repair. The intensity of this powerful volcano was a 7 on the Richter scale.

## Points

**INTENSITY: 8**

**AMOUNT OF DAMAGE:  
\$56,000,000**

**DEATH TOLL:  
50,000 - 90,000**

**POWER: FIRE**

**CREATED BY:  
AMANI**



# HURRICANE CHARLEY



Have you ever been lifted by a strong gust of wind? I know it was not as strong as Hurricane Charley's 150 mph winds that caused 13 billion dollars worth of damage in the U.S. Hurricane Charley happened in 2004 in Tampa, Florida. This nasty and terrible hurricane was a Category 4 on the Saffir-Simpson scale. It was a small hurricane, but its intensity increased rapidly. The damage this hurricane caused cost over thirteen billion dollars to repair.

## POINTS

**INTENSITY: 8**

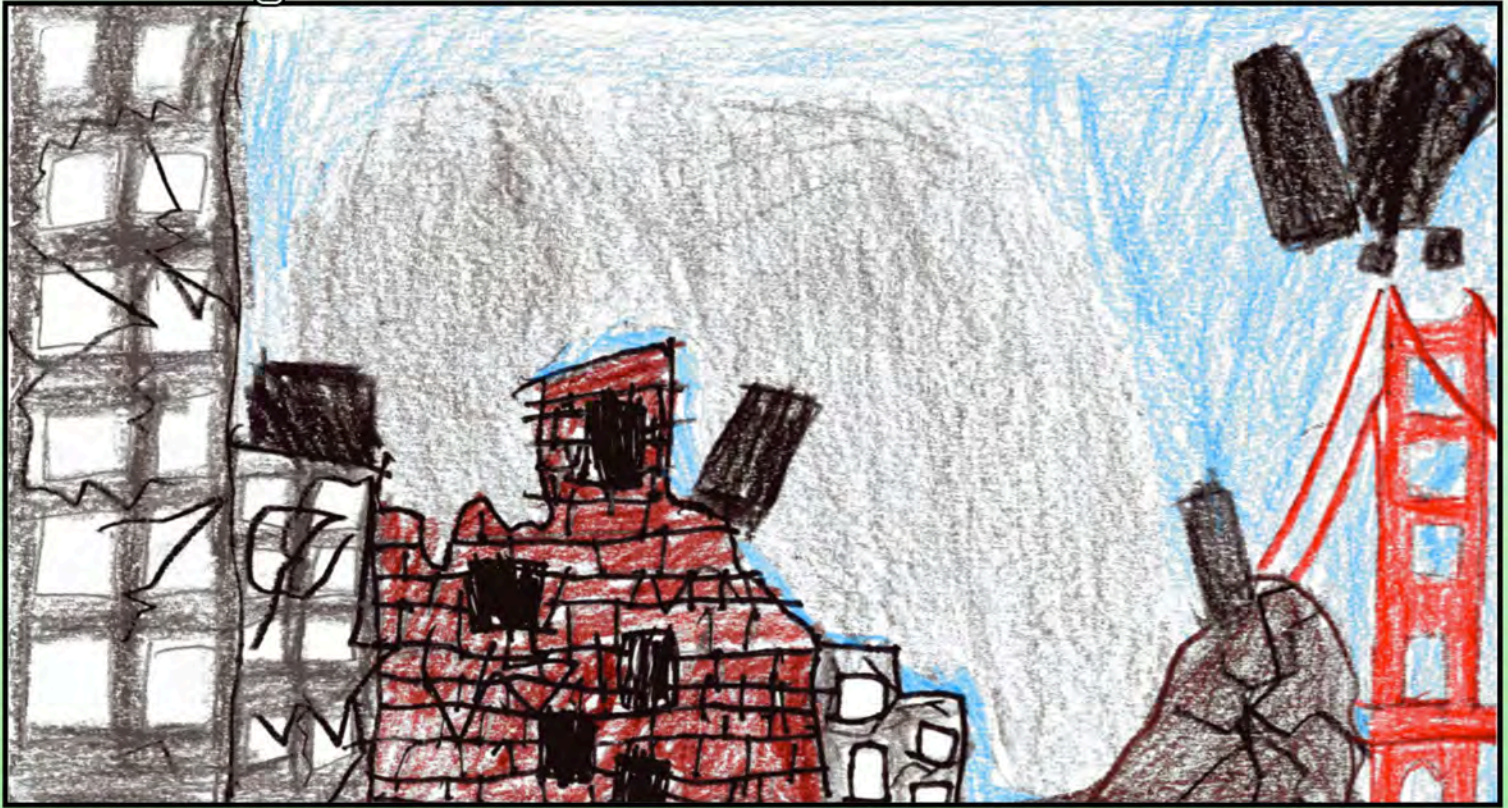
**AMOUNT OF DAMAGE:  
\$13,000,000,000**

**DEATH TOLL: 10**

**POWER: WIND**

**CREATED BY:  
ALEXIS**

# PARADISE LOST OF SAN FRANCISCO EARTHQUAKE OF SAN FRANCISCO



## POWER POINTS

**INTENSITY: 7.9**

**AMOUNT OF DAMAGE:  
\$8,000,000,000**

**DEATH TOLL: 3,000**

**POWER: EARTH**

**CREATED BY:  
AIDAN**

Crash! The Earthquake of San Francisco took place in 1906. The quake caused a colossal amount of damage, 8 billion dollars! The tremor had an enormous intensity of a 7.9 on the Richter scale. The death toll was massive number: 3,000 dead and 3,757 people were injured. The earthquake was one of the worst natural events in US history. Over 225,000 of the city's 400,000 residents were homeless.

# PAROLING IALP OF VANDU IARAN LARIYUANE UP NANIY, JAPAN



## POINT POINTS

Crash! Rumble! Earthquakes can be very harmful. The Kanto, Japan Earthquake happened in 1923. The earthquake was a 7.9 on the Richter scale. This tragic event caused 140,000 deaths, but no injuries. Did you know that this earthquake moved a 93 ton Great Buddha statue at the epicenter by sliding it forward almost two feet? Another cool fact is that the earthquake struck at lunchtime when many people were using fire to cook food. The damage and the number of fatalities increased due to fires which broke out in numerous locations.

**INTENSITY: 8**

**AMOUNT OF DAMAGE:  
\$ 100,000**

**DEATH TOLL:  
140,000**

**POWER: EARTH**

**CREATED BY:  
AHZARI**

# ABOUT US...



WE ARE THE THIRD GRADE CREW FROM WORLD OF INQUIRY SCHOOL #58 IN ROCHESTER, NY.

OUR SPRING EXPEDITION WAS TITLED "EARTH, WIND, AND FIRE". WE LEARNED ALL ABOUT MOTHER NATURE'S FURY. WE WENT ON FIELD STUDIES TO THE AMERICAN RED CROSS TO SEE HOW THEY RESPOND TO DISASTERS AND THE ROCHESTER MUSEUM AND SCIENCE CENTER TO LEARN MORE ABOUT WEATHER.

TO MAKE OUR CARDS, WE STUDIED OUR NATURAL EVENTS, WROTE AND TYPED OUR SUMMARIES, AND USED COMIC LIFE TO CREATE OUR OWN CARD.

WE WOULD LIKE TO THANK ALL OF OUR TEACHERS: CAROLYNNE SCHLEEDE, ALY RICCI, ALLISON BERICAL, OUR ART TEACHER, THERESA FUNK, OUR COMPUTER TEACHER, PETE HILLING, OUR PRINCIPAL, SHEELA WEBSTER, OUR ASISSTANT PRINCIPAL, KIM GARLOCK, AND A PARENT, MAUREEN SERVAS, FOR SCANNING IN ALL OF OUR ARTWORK.

THE MONEY WE OBTAIN FROM THIS PRODUCT WILL GO TO THE AMERICAN RED CROSS TO HELP PEOPLE IN NEED AS A RESULT OF THE DAMAGE FROM MOTHER NATURE'S FURY.