



NGSS: MS-ESS3 Earth and Human Activity  
CCSS: RST.6-8.7 Integration of Knowledge and Ideas



## "Twittical" Reading

Using Twitter to Teach

Critical Reading (Guided Highlighted)

in the

Science classroom with CCSS and NGSS



*"Chile's Calbuco volcano covers town of Ensenada in ash"*



**BBC** NEWS





## **MS-ESS3 Earth and Human Activity**

### **MS-ESS3-2**

Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects

#### **ESS3.B: Natural Hazards**

Mapping the history of natural hazards in a region, combined with an understanding of related geologic forces can help forecast the locations and likelihoods of future events. (MS-ESS3-2)



#### **RST.6-8.7 Integration of Knowledge and Ideas**

Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table). (MS-ESS3-2)

Teachers:

- Twitter is a wonderful source to find current, interesting and FREE articles that can be used with Critical Reading
- The most important step is to set up a twitter account for your classroom. Follow directions at <https://twitter.com>
- My suggestion is to make this a separate account from your personal account. Make your name something that is unique to you and your classroom (See MsHalseyScience)
- Follow reliable sources in the news and science world.
- Follow fellow scientist at the local, state and global levels
- To find a topic of interest, use the search tool at the top
- Skim Twitter periodically and retweet articles to use at later date
- Cut, copy, paste and edit the article to fit your classroom needs.



**The attached article has been edited to fit a middle school classroom  
Close and Critical reading lesson**

## What Is Critical Reading?

To the **critical** reader, any single text provides but one portrayal of the facts, one individual's "take" on the subject matter. Critical readers thus recognize not only *what* a text says, but also *how* that text portrays the subject matter. They recognize the various ways in which each and every text is the unique creation of a unique author.

These three steps or modes of analysis are reflected in three types of reading and discussion:

What a text **says** – **restatement**

What a text **does** – **description**

What a text **means** – **interpretation**

Source: "Reading and Writing Ideas As Well As Words"

Dan Kurland's [www.criticalreading.com](http://www.criticalreading.com)

[http://www.criticalreading.com/critical\\_reading.htm](http://www.criticalreading.com/critical_reading.htm)



### Twitter Article



BBC News (World) @BBCWorld 16h16 hours ago

Further eruptions likely from Chile's #Calbuco volcano, authorities warn

<http://bbc.in/1KmM4Gc>

# Cue/Opener

**Where is Chile? What do you know about it?**

**What do you know about volcanoes?**

**Do you remember any volcanoes that have erupted recently? What do you remember about it? Have you ever seen a volcano?**

**Share with your partner**

**Show National Geographic Video**

**NatGeoTravel @NatGeoTravel Apr 24**

**Chile volcano erupts in this stunning time-lapse video**

<http://on.natgeo.com/1Dqrmkb>



# What do we know about the Chile Volcano?



# Key Vocabulary *(Before Reading)*

Chile: A long, narrow country stretching along South America's western edge of the Pacific Ocean coastline.



Volcano: An opening in the earth's crust from which lava, ash, and hot gases flow or are ejected during an eruption



British Broadcasting Corporation: International news, features and analysis from Africa, the Asia-Pacific, Europe, Latin America, the Middle East and Asia

## What does the text say?

In paragraph 1, highlight the name of the volcano the erupted and where it is located

In paragraph 2, highlight where it tells the amount of ash came from the volcano

In paragraph 3, highlight the cause of the roof collapsing

In paragraph 4, highlight the other natural disasters that have plagued this area

In paragraph 5, highlight how long the volcano has been dormant

In paragraph 5, highlight where it describes the evacuation area

In paragraph 6, highlight the description of the eruptions

## How does the text say it?

Highlight the title of the article AND the date it was written

Highlight the name of the newspaper AND the section where it appeared

Highlight around the pictures

Highlight the captions

In paragraph 2, highlight the word that is spelled METER in the US, but is spelled this way in every other country

In paragraph 3, highlight all the quotes by the local residents

In paragraph 5, highlight the word that is a synonym for truck

## What does the text mean?

Using what you know about ecosystems, what do you predict will happen to this area. Describe the community of living organisms (plants, animals and microbes) as well as the nonliving components of the environment (things like air, water and mineral soil).

After watching the following video, develop a proposed relief effort for the people of Ensenada, Chile

 <http://www.bbc.com/news/world-latin-america-32476797>



**Chile's Calbuco volcano covers town of Ensenada in ash**

27 April 2015

From the section [Latin America & Caribbean](#)

1 People living in the vicinity of the Calbuco volcano in Chile are trying to save their homes and their livestock after tons of ash rained down following two volcanic eruptions. The roofs of a number of homes and businesses collapsed under the weight of the ash and residents feared for their sheep and cows. Soldiers have been deployed to help with the clean-up. The authorities have warned of the possibility of further eruptions.

2 They also said that should it rain, the ash could mix with debris to create dangerous mudflows. The Calbuco volcano in southern Chile erupted twice last week, forcing the evacuation of more than 6,000 people. Chilean authorities said on Saturday that the volcano had spewed out an estimated 210 million cubic metres (7,420 million cubic feet) of ash.

3 Local resident Victor Hugo Toledo said the area looked like a "grey desert". "Wherever you look all you see is grey dust; there is an average of 50cm (20in) of it over the towns and on all the roofs," he told the Associated Press news agency. The authorities allowed some of the residents evacuated from the town of Ensenada to return briefly in order to try to save some of their belongings. Rony Alvarado found that the roof of his restaurant had collapsed under the weight of the ash. "Eleven years of work [gone] in one day, one second," he said.

*Roof collapsed under weight of the ash**Chilean cowboys try to find area for grazing, but much is covered in ash*

4 On Saturday, the Chilean government announced it would provide aid to cover huge financial losses incurred by local farmers and to help evacuate thousands of farm animals. The second eruption on Thursday created a cloud of ash that rose 20km (12 miles) into the air. Calbuco is one of around 90 active volcanoes in Chile. The country has been hit by a series of natural disasters in recent months including flooding in the usually arid north and wildfires in its southern forests.

5 Residents and emergency workers in southern Chile have been clearing ash that rained down on towns after an eruption of the Calbuco volcano. The volcano, which had been dormant for four decades, erupted on Wednesday, April 22, sending a plume of smoke and ash 10km (6 miles) into the sky. Authorities evacuated people living within a 21km (13 mile) radius. Road workers used lorries to plough through the ash, which lay up to a metre (3ft) deep in some places. As the massive ash cloud drifted south, emergency workers handed out protective masks in a wide area including parts of Chile and Argentina.

6 The first eruption on Wednesday evening lasted about 90 minutes and send a huge mushroom cloud of ash into the sky. Seven hours later the volcano erupted again, this time shooting lava into the air and generating volcanic lightning. There have been no reports of deaths or injuries.

*Volunteers dig out a fire truck**A vehicle covered with ashes remains off the road*

Look for more Critical Reading  
**Ms. Halsey's Science & SIP**



*My*CuteGraphics