



**MIDDLE AGES  
SCIENCE**



SCIENCE: Geology and Meteorology  
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**GEOLOGY**

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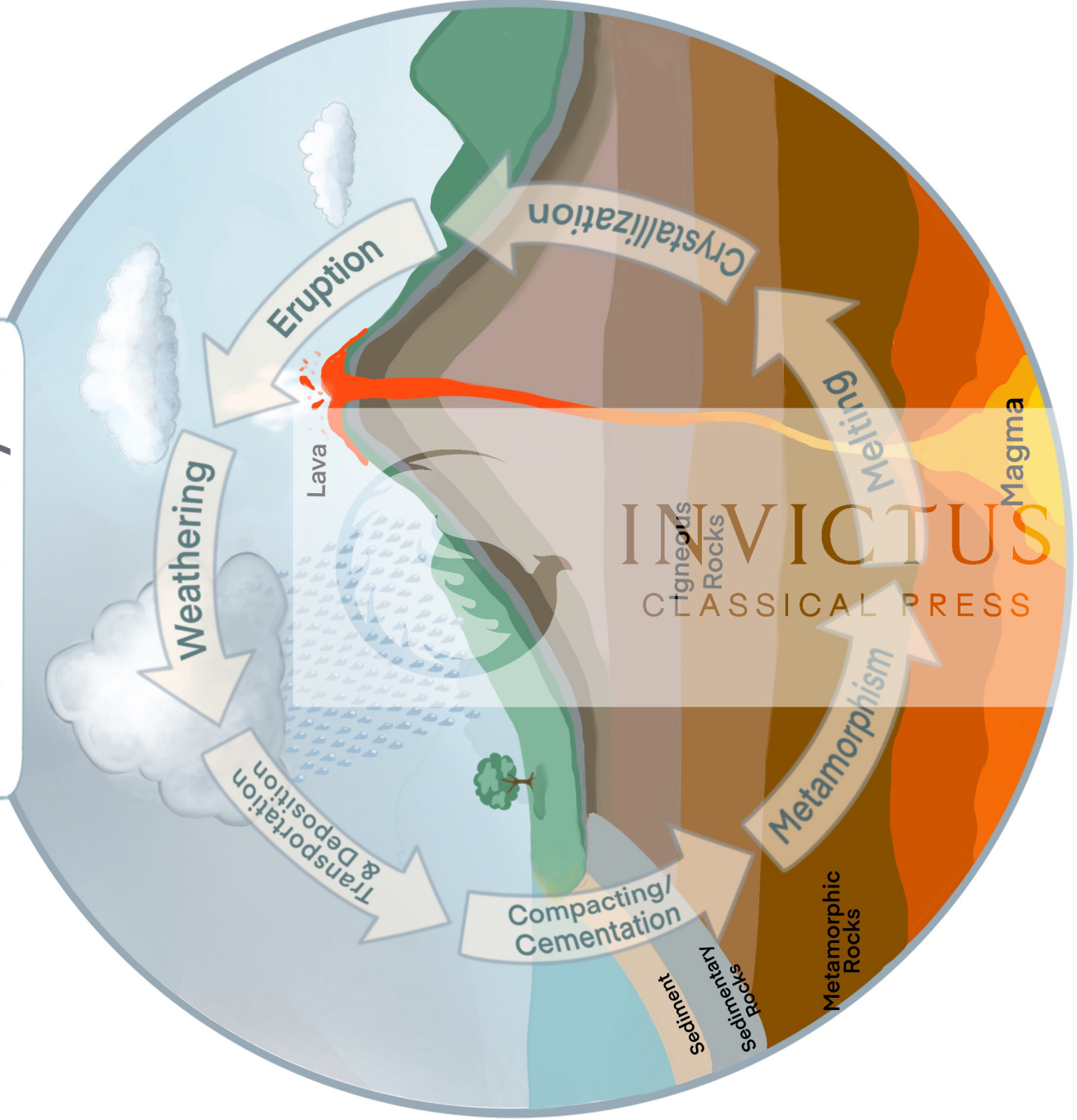
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*View of Nature in Ascending Regions, Chromolithograph (1893)*

Geology, Lesson 3 © Invictus Classical Press

# The Rock Cycle





**METEOROLOGY** INVICTUS  
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# How Tornadoes Form

Kilometers  
14  
13  
12  
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1  
0

Cumulonimbus

Updraft

Cold Air

Strong wind

Warm Air

Downdraft

Precipitation

Cloud of dust and debris



# Fujita/Enhanced Fujita Scale

	<b>F SCALE WIND SPEED</b> (1971-2007)	<b>EF SCALE WIND SPEED</b> (2007-present)	<b>TYPICAL DAMAGE</b>
<b>0</b>	40-72 mph	65-85 mph	Peel surface off some roofs, some damage to gutters or siding
<b>1</b>	73-112 mph	86-110 mph	Roof severely stripped, mobile homes overturned or badly damaged, loss of exterior doors, windows and other glass broken
<b>2</b>	113-157 mph	111-135 mph	Roofs torn off well-constructed homes; foundation of frame homes shifted; mobile homes completely destroyed
<b>3</b>	158-206 mph	136-165 mph	Entire stories of well-constructed homes destroyed; severe damage to large buildings such as shopping malls
<b>4</b>	207-260 mph	166-200 mph	Well-constructed houses and whole-frame homes completely leveled
<b>5</b>	260-318 mph	Over 200 mph	Strong frame houses leveled off foundations and swept away; high-rise buildings have significant structural deformation.