

**FOSS Weather and Water Course**  
**Vocabulary/Glossary Terms**  
**Next Generation Edition © 2018**

***Investigations Guide Vocabulary***

**Investigation 1: What Is Weather?**

air  
air pressure  
atmosphere  
compress  
exosphere  
expand  
forecast  
humidity  
mass  
matter  
mesosphere  
meteorologist  
meteorology  
particle  
permanent gas  
precipitation  
prediction  
pressure  
severe weather  
state  
stratosphere  
temperature  
thermosphere  
troposphere  
variable gas  
weather  
weight  
wind

**Investigation 2: Air Pressure and Wind**

atmospheric pressure  
bar  
barometer  
density  
equilibrium  
isobar  
kinetic energy  
millibar (mb)

**Investigation 3: Convection**

convection  
convection cell  
energy transfer  
fluid  
model

**Investigation 4: Radiation**

absorb  
climatologist  
climatology  
differential heating  
evidence  
heat  
latitude  
radiant energy  
radiation  
ray  
solar angle  
thermal energy

**Investigation 5: Conduction**

conduction  
constraint  
criterion  
engineering problem  
insulation

**Investigation 6: Air Flow**

air mass  
Coriolis effect  
jet stream  
land breeze  
prevailing wind  
sea breeze

**Investigation 7: Water in the Air**

condensation  
condensation nuclei  
dew point  
evaporation  
precipitation  
saturated  
transpiration

**Investigation 8: The Water Planet**

El Niño  
groundwater  
gyre  
ocean current  
salinity  
water cycle

**Investigation 9: Climate over Time**

carbon dioxide  
carbon sequestration  
climate change  
emission  
global warming  
greenhouse effect  
greenhouse gas  
ice core  
infrared  
paleoclimatology  
pollutant

**Investigation 10: Meteorology**

cold front  
warm front

## ***Science Resources Vocabulary***

### **Investigation 1: What Is Weather?**

absorb  
air  
air pressure  
atmosphere  
atmospheric pressure  
blizzard  
carbon dioxide  
cumulonimbus  
drought  
dust devil  
dust storm  
exosphere  
flash flood  
flood  
greenhouse gas  
groundwater  
hail  
hurricane  
jet stream  
lightning  
mass  
mesosphere  
methane  
microburst  
nitrogen  
oxygen  
ozone  
permanent gas  
photosynthesis  
planet  
season  
severe weather  
solar energy  
star  
step leader  
straight-line wind  
stratosphere  
thermal energy  
thermosphere  
thunder  
thunderstorm  
tornado  
troposphere  
typhoon  
updraft  
variable gas  
water vapor  
weather factor  
wildfire

### **Investigation 2: Air Pressure and Wind**

barometer  
density  
kinetic energy  
matter  
vacuum

### **Investigation 3: Convection**

convection  
convection cell  
fluid

### **Investigation 4: Radiation**

axis  
bimetallic strip  
equinox  
latitude  
north star  
orbit  
revolution  
rotation  
solstice  
thermometer

### **Investigation 5: Conduction**

conduction  
constraint  
criterion  
insulation  
model  
nonrenewable  
renewable

### **Investigation 6: Air Flow**

Coriolis effect  
doldrums  
Hadley cell  
horse latitudes  
infrared  
land breeze  
prevailing wind  
radiant energy  
sea breeze  
trade wind

**Investigation 7: Water in the Air**

global warming

radiosonde

vortex

**Investigation 8: The Water Planet**

boundary current

El Niño

Gulf Stream

gyre

ocean current

rip current

salinity