

weather watch - investigation 7, 8 and 9

writing at the top of all pages

156 Heat transfer quiz - part 1

Heat transfer quiz - part 2 157

162 Water Cycle - Investigation 7

Investigation 7 - the water cycle

define:

evaporation - precipitation -

condensation - transpiration -

show how these terms fit into the diagram below

What are the rules of this game?

location	round 1	round 2
animal		
atmosphere		
glacier		
groundwater		
lake		
ocean		
plant		
river		
soil		

What I learned because I played this game:

writing

158 Journal Entries

Water Cycle - Investigation 7 159

Where is all our water?

most of our water is in the _____

What is it??

define these terms:

groundwater

ice caps

glaciers

inland seas

fresh water vs salt water

164 Water Cycle - precipitation

Journal entries 165

date _____ date _____

date _____ date _____

precipitation

writing

160 How does water get into the air? Investigation 7

Investigation 7 - the water cycle

How does water get into the air?

weather

step 1 - put a plastic bag over a plant

step 2 - tie bag to the pot with a rubber band

step 3 - observe the bag

what happens to the plastic bag?

why?

transpiration

How long does it take for the liquids to evaporate?

spool of water

spool of alcohol

alcohol H₂O

cloud chamber

explain what will happen.

condensation

163 Air Pressure and Wind - Investigation 8

Investigation 8 - air pressure and wind

This instrument is called a barometer.

observe/explain

describe this instrument

how will things change if you squeeze the plastic jar?

investigation 8 - air pressure and wind

weather

"bob" notebook set up.

writing

168 Weather - Reading - Investigations 9

WE

How does the tilt of the Earth affect the weather?

Investigation 9 - Weather and Climate 169

Weather

What factors affect weather?

Weather is what is happening in the atmosphere at a given time and place. Meteorologists use air temperature and humidity to predict and describe weather. All temperatures are affected by the amount of solar energy that reaches the area. The sun affects more directly and strongly the Earth's weather. Also, Earth is tilted on its axis. This means the sunlight is more direct and intense at the equator than at the poles. Air temperature is affected by local conditions. For example, the shade of a small stream can keep the air temperature cooler than the rest of the stream bed.

writing

170 Journal entries

date _____ date _____

date _____ date _____

Investigation 9 - Weather and Climate 171

Weather Forecasting

How is weather predicted?

Weather forecasting is the prediction of future weather conditions based on current weather conditions. These data are plotted on weather maps. Weather maps show areas of high and low air pressure and the movement of these air masses. Low pressure areas usually have more clouds and precipitation. A cold front is the front edge of a mass of colder air. It is marked on a weather map by a line with triangles pointing toward the warmer air.

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