شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية





حل الوحدة الرابعة الطقس Weather منهج انسباير

موقع المناهج ← المناهج الإماراتية ← الصف الثالث ← علوم ← الفصل الثاني ← الملف

التواصل الاجتماعي بحسب الصف الثالث









روابط مواد الصف الثالث على تلغرام

<u>الرياضيات</u>

اللغة الانجليزية

اللغة العربية

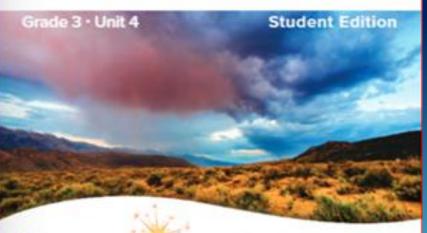
التربية الاسلامية

المزيد من الملفات بحسب الصف الثالث والمادة علوم في الفصل الثاني			
أسئلة الامتحان النهائي - انسباير	1		
أسئلة الامتحان النهائي - بريدج	2		
حل أسئلة الامتحان النهائي	3		
أسئلة الامتحان النهائ <i>ي</i>	4		
مراجعة عامة لصور الكتاب	5		









Inspire Science

UAE Edition Grade 3 2021-2022

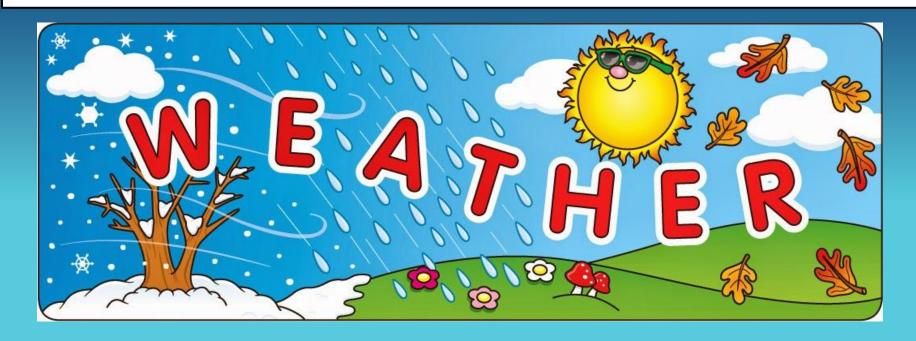








What the air is like outside







Mostly sunny

Partly cloudy



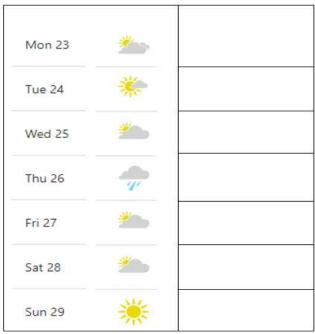


Lesson-Weather pattern

Lesson - Weather pattern

Identify the weather in Abudhabi

January 2023



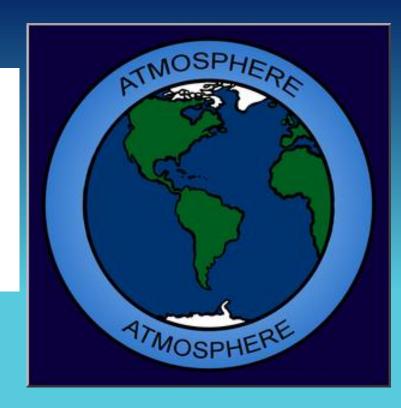
Word box

Sunny Rainy Cloudy Mostly sunny Partly cloudy



Atmosphere

It is a blanket of gases and dust that surrounds the earth.



Page No:

When George woke up, there were dark clouds in the sky. On his way to school, it rained. When he walked home from school with his friends, the Sun was shining. There were white clouds in the sky. George and his friends had different ideas about the clouds.

This is what they said:

George: I think the dark clouds are the only ones that contain water. When they get very dark the water falls as rain.

Kamila: I think dark and white clouds contain water. Only the dark loude release the water as rain

Jenna: I don't think any clouds can hold water if the Sun is shining. White clouds do not contain water.

Explain why you agree.

Which friend do you agree with most?

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Check out Moving Clouds to see the phenomenon in action.



Look at the picture and watch the video Moving Clouds. What kind of weather is the picture showing? What kind of weather will this place have next? Draw a picture to show your prediction.

Cloudy Rainy





Page No:

Weather

Weather is what the air is like outside at a certain time and place. Even though you cannot see air, you can see it move things, such as leaves on trees. Weather changes from day to day. It can also change from hour to hour.

The air that surrounds Earth is part of the atmosphere.

The atmosphere is a blanket of gases and tiny bits of dust that surround Earth. The atmosphere has several layers. Weather occurs in the layer closest to Earth.

Temperature

When people describe weather, they describe the condition of the sky. Some terms used are sunny, cloudy, rainy, and stormy. They also describe air and its temperature. Temperature is a measure of how hot or cold something is. A thermometer is a tool that measures temperature. The diagram on the next page shows how to read a thermometer. A higher temperature means it is getting warmer. When the temperature goes down, it gets colder.

		Partly cloudy
Mon 23	***	
Tue 24	*	Mostly sunny
Wed 25	*	Partly cloudy
Thu 26	7	Rainy
Fri 27	*	Partly cloudy
Sat 28	*	Partly cloudy
Sun 29	*	Sunny

The blanket of Earth made of gases and dust is called -----

A Weather

(B) Atmosphere

Temperature

It is a measure of how hot or cold something is.







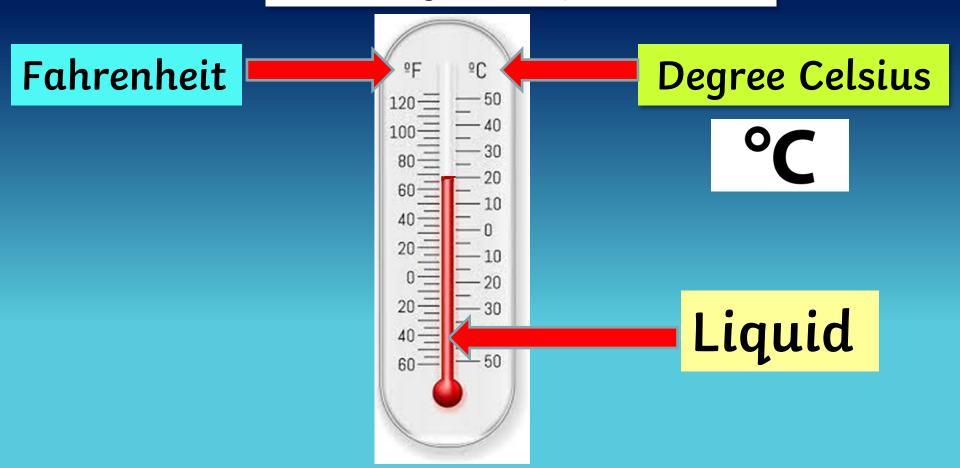
Thermometer

Tool used to measure temperature





Unit of Temperature



The unit of Temperature

A Thermometer

B Degree Celsius

Page No:

INQUIRY ACTIVITY

Data Analysis

Predict Weather

You looked at a picture of changing weather. Investigate to discover how weather can be predicted. Explain how this happens.

Make a Prediction What kind of weather will the area to the east of your location have tomorrow?



Materials



current weather map



weekly weather report of your area



weekly weather report of location east of you

Page No:



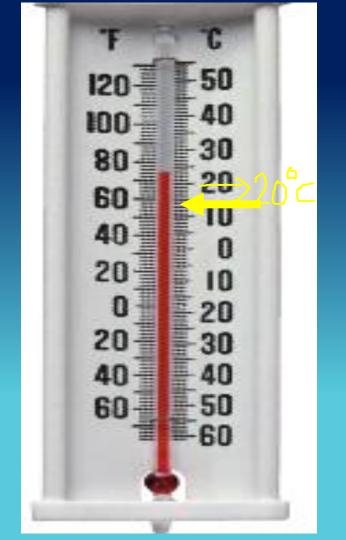
Page No:

1. Connection The height of the red bar, inside the thermometer, shows the temperature of the surrounding air. Look at the diagram. What is the temperature in degrees Celsius?



Page No: <mark>11</mark>

Place an arrow on the thermometer pointing to the temperature it is in your area today.
 Label the arrow.





Textbook

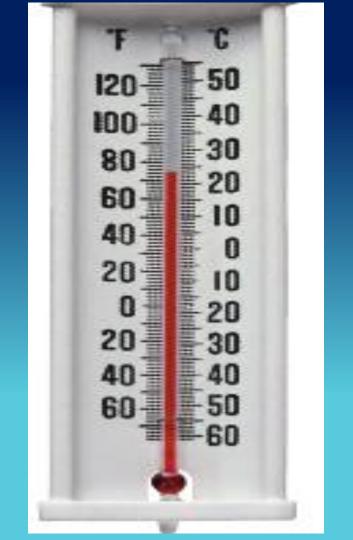
Page No: 11

3. What kind of activities can you do in this temperature? What should you wear when you go outside?

Cycling

Woollen Jacket

4. Water usually freezes at 0°C. What is the temperature at which water freezes in Fahrenheit?



5. READING Connection What makes up Earth's atmosphere?

Atmosphere is made of gases and dust.

We can talk about weather by using



1. Air Temperature

2. Air Pressure

3. Precipitation

4.Wind



1.Air Temperature

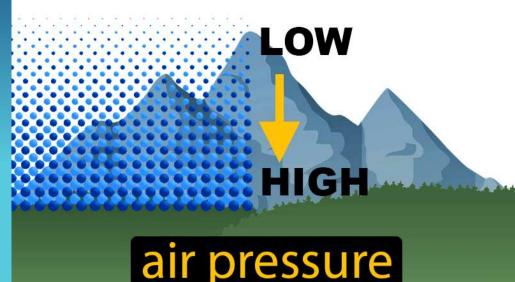


Thermometer



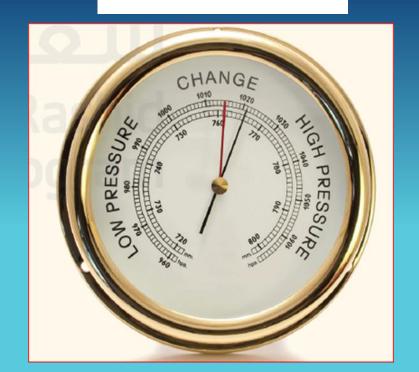
2. Air Pressure

the weight of the air pressing down on a surface





Barometer



3. Precipitation

water that falls to Earth in any form - rain, snow, sleet, or hail





Rain gauge



4.Wind



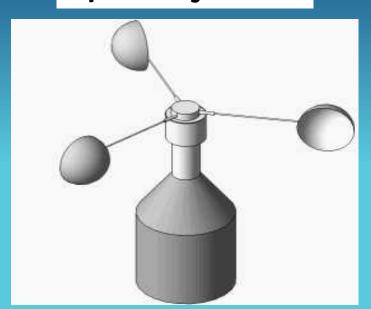
Weather Tool

Windvane
Direction of wind



Weather Tool

Anemometer
Speed of wind



Page No:

Describing and Measuring Weather

Air temperature is one measurement of weather. Precipitation, wind, and air pressure also describe weather. When one of these factors changes, so does the weather.

Precipitation Precipitation is water that falls to the ground from clouds. Liquid rain is the most common type of precipitation. Precipitation falls as liquid rain when the air temperature is warmer than 0°C (32°F). A rain gauge is used to measure precipitation.

Steet, snow, and hail are frozen precipitation. Steet forms when rain falls through a layer of freezing-cold air. Snow is made of ice crystals. Hail forms when rain freezes and is tossed about in a tall cloud.

Air Pressure Air pressure is the force of air pressing



A rain gauge measures how much rain has fallen.

down on Earth's surface. Weather reports often describe air pressure. Scientists use a tool called a barometer to measure air pressure.

Wind Wind is moving air. It is caused by differences in air pressure. Scientists measure how fast the wind is blowing with an anemometer. Because winds in the United States usually blow from west to east, the

weather will usually move from west to east as well.

The arrow of a weather vane points into the wind.

Book work

Page No:12

Describing and Measuring Weather

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Precipitation Procipitation is water that last to the ground from clouds. Liquid rain is the most common type of precipitation. Precipitation falls as liquid rain when the air temperature is worner than OTC (\$27%). A rish pauge is used to measure psycipitation.

Stood, secon, and trait are trasen procephation, Seek forms when rain talk through a layer of threeling-cold sit. Sinow is made of ico crystain. Hait torms when rain troops and is lessed about in a fair cloud.

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What is the eastine only between wind and DE DESIGNATION



The property of a people.



What is the relationship between wind and air pressure?

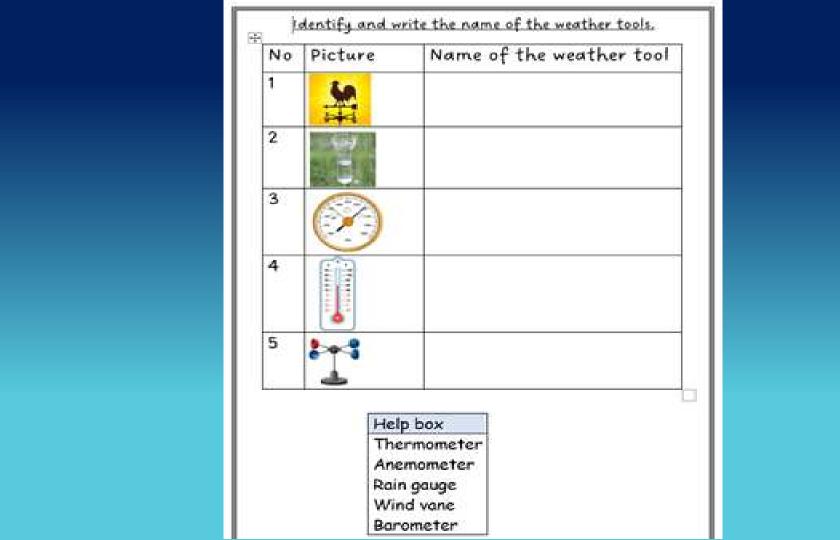
Wind moves from high pressure area low pressure w area.

EXPLAIN Module: Weather Impacts



Weather Tools

Air temperature	Air pressure	Precipitation	Wind direction	Wind speed
Thermometer	Barometer	Rain gauge	Wind vane (Weathervane)	Anemometer
THE STATE OF THE S	1000 1000 1000 1000 1000 1000 1000 100		S W N	



Page No:

Predicting Weather

Knowing the weather helps people stay safe. Airplane pilots study the weather to find out if it is safe to take off and land in another area. Predictions of hurricanes can give people time to find shelter.

Scientists use many tools to predict the weather. For example, a weather balloon is a tool that is launched into the air. It carries devices that collect data about the atmosphere. A satellite is a tool that scientists put into space. It travels around Earth and collects



Weather balloons are used to gather data about weather.

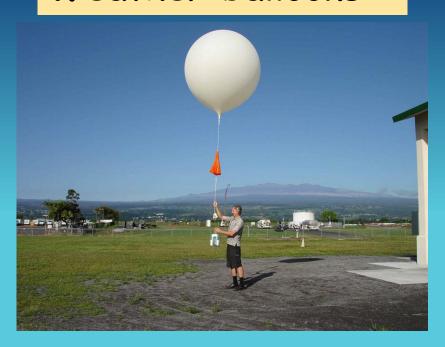
data over very large areas. A satellite can spot storms over the ocean. Scientists then use other information about the atmosphere to predict where the storm will move next.

Scientists use the data they collect and past information about an area to predict what the weather will be like in that area. They may look at what the weather is mostly like during a particular month or even a year.

Scientists use tools to predict weather

Weather balloons







Page No:

Talk About It

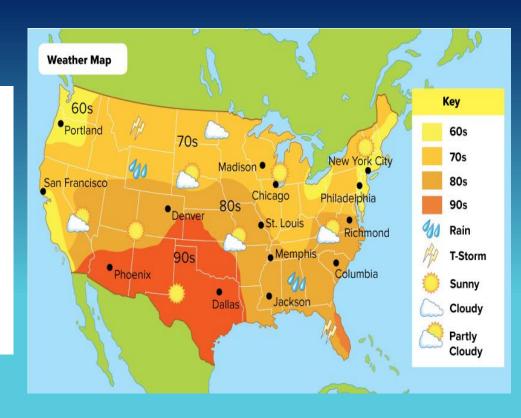
What are some ways knowing weather predictions can help people plan their lives better?

It helps people

- *what to wear,
- *to stay safe and find shelter during severe weather.

Weather Map

It shows the temperature and precipitation in an area.



Page No:

Weather Map

A weather map lists the temperatures, precipitation, and other upcoming weather predictions over a large area. It may show the high temperatures for the day. It may show where it will be sunny.



Page No:



Read a Diagram Look carefully at the key. The colors show areas where different high temperatures will occur. The symbols show the kind of weather different areas will have.

Look at the weather map. Name two cities that will have high

Phoenix and Dallas



se the data. What will the weather be like in Chicago?

Sunny and warm

Page No:



Broadcast Meteorologists report on the weather: They usually work for radio or inservision networks. Meteorologists sharp the effects of weather in the radio or inservision wouther in their local communities and around the country. They read weather charts and information on past weather conditions to create weather experience of the report of the report of the report practicions for precipitation, the report practicions for precipitation, and wind. They are very good at communicating their data and infedings. Untime weather fails

broadcasts, they use maps and

charts to explain weather patterns



As a broadcast melecrologist, what intormation would you need to have in order to create a broadcast about your local weather? What would you show people to help them understand the forecast?

construction of Westernam

Broadcast Meteorologists report on the weather. They usually work for radio or television networks.

Meteorologists study the effects of weather in their local communities and around the country. They read weather charts and information on past weather conditions to create weather reports. They report predictions for precipitation, temperatures, and wind. They are very good at communicating their data and findings. During weather broadcasts, they use maps and charts to explain weather patterns to people and make suggestions for how to prepare for the days ahead.



It's Your Turn

As a broadcast meteorologist, what information would you need to have in order to create a broadcast about your local weather? What would you show people to help them understand the forecast?

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Page No:

Communicate Information

Write your weather forecast.

odule: Weather Impacts

© GO ONLINE Explore Patterns of Weather to see how weather moves and changes.

Tomorrow will be ----.
The high temperature will be---The low temperature will be ----

	Condit	ions	
Day		Temperature	Weather
Tue 31 Jan		24 / 15 °C	Sunny.
Wed 1 Feb	C	26 / 18 °C	Mostly sunny.
Thu 2 Feb		26 / 18 °C	Sunny.
Fri 3 Feb		27 / 17 °C	Sunny.
Sat 4 Feb	~	26 / 17 °C	Afternoon clouds.
Sun			

26 / 16 °C

5 Feb

Cloudy

Page No: <mark>17</mark> 4. What patterns did you notice in the weather?

Low temperatures Sunny days

Page No:



differ!

Summarize It

Explain how we can make predictions about weather in the United States.

Weather patterns helps us to know what weather will come next.

Section of the Contract of the

Page No:19

Weekly Forecast for Dallas, Texas:

Monday	Tuesday	Wednesday	Thursday	Friday
0				900

- The weather map predicts that the high temperature in Dallas will be in the
 - A. 60s

B: 705

C. 80s

- D. 90s
- 2. What kind of weather conditions would you expect Dallas to have on Thursday?

Hot and partly cloudy