

The activities meet the English/Language Arts standard that deals with informational text and skill 3 in the social studies curriculum that says use map and globe reading skills and interpret graphs and charts.
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Informational graphics convey details and improve communication with newspaper readers. Maps appear each day in the weather section. Newspapers publish other maps to clarify and support news stories. Graphs and charts also accompany stories and appear each day in weather, sports, TV-movie sections and stock pages. Have students scan one or more newspapers for maps, charts and graphs and share what they find. They should note whether the graphic is a regular feature of the newspaper and whether it is a standalone, visual sidebar or a supplement to a news story. Provide the student worksheet, MAPS, GRAPHS and CHARTS.

Follow-up by having students evaluate the graphics. Ask questions such as: Does the graphic have an effective headline? Does the key make clear what the elements of the graph/chart represent? Is the graphic clean and uncluttered? Do the graphics make stories or the whole newspaper more readable? Do the graphics make the newspaper more appealing to the eye?

## WEATHER MAPS

Have students use the weather report in their newspapers to fill in the student worksheet, WEATHER CLOSE to HOME. They should find all of the weather about their community.

Have students use weather maps and reports to reinforce learning about the state's regions. Provide the student worksheets, WEATHER in NORTH CAROLINA and TRAVEL NORTH CAROLINA. Ask students to select cities and determine distances from their hometown and plan trips to the different cities.

Many newspapers offer reports about major cities in the United States and around the world. Use the student worksheet titled WEATHER FAR from HOME to record high and low temperatures and ranges of temperature. Locate all of the cities on classroom maps of the United States and the world. Have students consider weather when determining whether they want to visit different cities and use airline and travel ads in the newspaper to plan their trips.


Have students keep a journal of weather conditions over a 28 day or four-week period. They should record what they learn, particularly during times when weather is most threatening.
Provide the student worksheet WEATHER MAKES NEWS.
Ask students to collect all of the symbols used on weather pages. Provide the student worksheet titled SYMBOLS in WEATHER or display the symbols on bulletin boards. Have students discuss the emotions associated with weather and weather words and symbols and use weather words and symbols to create similes, metaphors and other figures of speech.

Have students convert temperatures from Fahrenheit to Celsius and rewrite one section of the weather report. Celsius= (Fahrenheit-32 degrees) X 5 .

## OTHER MAPS

Have students plan a shopping trip (or day of entertainment), using ads to make choices. Then ask them to draw a map to show their route. They should indicate where they will go first, second, third.

Provide maps and have students follow their favorite teams as they travel or track hurricanes and storms. Encourage students to keep track of candidates for public officials as they campaign and world leaders as they travel to other nations.

Collect maps from the newspaper, and locate those places on larger maps of the state, nation and world.

Make use of classroom maps and your newspaper. Establish a time limit, such as three or five minutes. Have students locate and list as many places in the newspaper as they can find.
Students should list each place only once and record the page number. Recognize the student who finds the most in the allotted time. Also, have students identify and list the state, country or continent where each place is found. Then have students find the places on classroom maps. Students should work in pairs and assist each other in finding less familiar places.

Note whether you want to limit their search to datelines. Datelines tell readers where the news originated, generally where the reporter was when he transmitted the story. Datelines most often appear on the first line of news stories that occur outside the local area. Follow up by discussing which places appear in the news on a regular basis and why. Offer the student worksheet, PLACES in the NEWS.


Display maps on bulletin boards. On the bulletin board, around the maps, have students attach stories that refer to places on the maps. They should connect the stories to the places with yarn or strips of paper.

Write or have students write comprehension questions based on maps found in newspapers.
Have students create maps to supplement stories that do not have maps.

## SPORTS

Have students read for facts about favorite teams, list their wins and losses and calculate differences. Provide the chart SPORTS FACTS in FIVE for students to record details about the variety of sports in one day's newspaper.

Ask students how teams score points (touchdowns, field goals, extra point and two-point conversions and safety for football AND two and three-point shots and free throws for basketball). Have students use the scoring to explain the results of games. Use worksheets, BASKETBALL STATISTICS and FOOTBALL SCORES.

Create and have students create similar questions based on data in newspapers about sports that they understand. Have them teach other students about their favorite sports, teams and players and explain the box scores.


Have students use box scores to practice their reading and interpreting charts. Have them list from high to low the batting averages of baseball players on certain teams. Or ask them to list players with the ten highest batting averages or most homeruns or the teams scoring the most runs during the season or part of the season. Have students record at bats $(A B)$ hits $(H)$ and runs (R) and conclude whether and how often more at bats and hits result in more runs.


Have students follow individual sports such as tennis, golf or car racing. They should keep win/loss records and rankings for favorite players, averages scores for golfers, games and matches won and lost for favorite tennis players and rankings and winnings for car racers.


Basketball tournaments use brackets to show which teams play each other and which team wins and plays more games. Create brackets to show which teams win and lose in other sports.

## TV-MOVIES

List several programs and have students find them in the TV schedule. Ask: What time do the programs start? When do they end? How long do they last? Where or on what channel do you turn to see them? Have students draw clocks on paper plates on to show times for the programs.

Have students choose $X$ number of TV shows or programs to view over a two-hour period. They should check to be sure the programs do not overlap. Have them indicate which show they prefer, if they had to choose one. Ask them to construct a graph that shows what percent of the day the programs represent.

Ask students to classify movies advertised in the newspaper. Offer categories, such as comedy, tragedy, romance, action or adventure and science fiction, but encourage students to choose their own categories. Have students use a pie chart or other type of graph to show results. They should write a headline for their chart or graph. Provide the worksheet, CHART MOVIES.



Scan one or more newspapers for maps, charts and graphs. How many do you find? Is the graphic a regular feature of the newspaper? Does it stand alone as a visual sidebar or does it supplement a news story?


How many?

| Map, Graph or Chart <br> Topic | Section <br> /Page | Regular feature | Stand alone or <br> Suplement to news story |
| :---: | :---: | :---: | :---: |
|  |  |  |  |

Evaluate several graphics. Does the graphic have an effective headline? Does the key make clear what the elements of the graph/chart represent? Is the graphic clean and uncluttered? Does the map or graphic convey significant details? Do the graphics make stories or the whole newspaper more readable? Do the graphics make the newspaper more appealing to the eye?

Find weather information in your newspaper:

1. Does the front page include weather information? What do learn about today's weather on the front page?
2. Where does the weather report and map appear in your newspaper? Does the weather appear in the same section and/or on the same page each day?
3. Does the newspaper include news stories about the weather and its impact on your community? What do you learn?

The weather in your town affects you most directly. Chart information from your newspaper's weather section and answer questions.

| Your town |  |  |  |
| :--- | :--- | :--- | :--- |
| Today's prediction <br> Hi Low | Wind, rain, snow, etc. | Air quality | Precipitation level |
|  |  |  |  |

1. What's the range of temperatures predicted for today?
2. How do those predictions compare with actual temperatures recorded yesterday?
3. What time does the sun rise and set today?
4. What is the phase of the moon? Draw or describe.
5. What other information do you find? Fronts? Air pollution levels? UV ratings? High pressure systems? Barometer reading? Why do you need to know this information?

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How does the weather in your home town and county affect you and the choices you make? Does the weather affect the way you dress and the activities you choose? Does the weather affect your work?


Select four cities in North Carolina that represent the different regions of the state (Mountains, Piedmont, Coastal Plains and Sandhills).


| North Carolina cities | Region | Temperature Hi Low | Other weather conditions |
| :---: | :---: | :---: | :---: |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
| 4. |  |  |  |

Circle any city that is located in the same region as your town. If the weather in any city is similar to weather in your town, place a checkmark by the city. Place an "X" by the city with weather most different from your town's or county's weather.

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Why is the weather in some cities similar to weather in your town? How does location affect the weather? How do mountains and bodies of water affect weather? What else affects weather? Scan the other weather charts in your newspaper and identify cities outside the state that have weather similar to the weather in your town.

Cut out the map of North Carolina on your weather page and paste it on the back or front of this sheet. Highlight your home county. Also, pinpoint four North Carolina cities. Count the counties between your county and each of the four cities. Estimate the distance.

| Cities | Number of counties | Estimated distance |
| :--- | :--- | :--- |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |
| 4. |  |  |

## THINK Kmorel

Conduct research to figure out how far each city is from your hometown and list the actual distance. Estimate the time required to drive to each town. Use a road map to chart your course.


Before planning a trip to the city, what more do you need to know? How does each city attract visitors? What do you already know and what more do you want to know about attractions in the cities?

Select five cities in the United States but outside North Carolina and five outside the United States. Chart high and low temperatures and other information you find in the weather report or in news stories. Locate each city on a classroom United States or world map.


Keep a journal based on weather reported in news stories over 28 days or four weeks, particularly during times of year, such as hurricane season, when weather seems threatening. Newspapers may not have weather-related stories each day.

Month $\qquad$ or 28-days starting $\qquad$
Sunday
Monday 2 Tuesday
3

Wed.
4
Thurs. 5
Fri
6
Sat.
7

| Sunday | Monday | Tuesday | Wed. | Thurs. | Fri | Sat. |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |

## THINKmoret

Highlight important weather words and phrases in the news stories. Use context clues for definitions and explanations of the terms.

What threatening or damaging weather did the newspaper report? Were those reports about weather in your community, region, state, nation or world? How does damaging weather outside your community affect you?

## Cut out paste symbols that your

 newspaper uses to representEYMEOLS. each type of weather:

1. Sunny
2. Cloudy
3. Partly cloudy
4. Rain
5. Thunderstorm
6. Snow

Over time, cut out drawings that show phases of the moon and paste those below.

## THINK more!

What emotions do you associate with the different weather conditions and phases of the moon? Write similes and metaphors that refer to weather.
Example: as sunny as my street in summer.
Locate and list all of the places you

Discuss which places appear in the news on a regular basis. What makes those places "hotspots"?

## Informational <br> maps, graphs and charts

|  | Draw facts from the sports section of today's newspaper. List the sports on the left and choose facts about the different sports to complete the chart. |  |  | 500 Stacts in five |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | sport | Losing Team | Wining Player | Won veer 50\% | Lostby smal margin | Top ranked |
| 1. |  |  |  |  |  |  |
| 2. |  |  |  |  |  |  |
| 3. |  |  |  |  |  |  |
| 4. |  |  |  |  |  |  |
| 5. |  |  |  |  |  |  |
|  | HV'K |  |  |  |  |  |




Classify movies advertised in the newspaper. Choose categories such as comedy, tragedy, mystery, action or adventure, science
 fiction and romance. Use the pie chart to show how many movies fall into the categories. Write a headline for your chart.

## THINK Kores $^{\text {m }}$

What other type of graph or chart can you use to show the categories of movies?

Select ten companies listed in the stock pages of the newspaper. Choose companies that interest you. Record the price at the close of the day and change that occurred over the day. Plus $(+)$ indicates price went up, dash (-) indicates price went down and dots (...) indicate no change.

Subtract change from closing price to figure out opening price for stocks. If the newspaper lists high and low prices over the past year, determine where yesterday's price falls in the range.

|  | CloseNet Change | Opening price | High <br> 365 <br> Low |
| :--- | :--- | :--- | :--- |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
| 4. |  |  |  |
| 5. |  |  |  |
| 6. |  |  |  |
| 7. |  |  |  |
| 8. |  |  |  |
| 9. |  |  |  |
| 10. |  |  |  |

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Track the performance of the stocks over several days or weeks. Then pretend you have money to invest in the stock market. Choose five of the companies and purchase 100 stocks. Graph the performance of your stocks.

