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The sheet will open in a new window. You can download or print using browser document readers. brainplusiqs.com a print sheet © the Free Printables 2020 sheet copyright Privacy Policy Contact Goals: A student will know how any place on Earth can be defined by latitude and longitude. Find out the difference between local time and universal time, as well as the various adjustments made during time hours, such as time zones, daylight saving time and the use of the international date line. Know that any in the celestial sphere can be defined by declination and right ascension. They are similar to latitude and longitude, except that: dismissal is measured from the north pole, not from the equator (the way co-latitude is determined) The right ascension is traditionally given not in degrees, but in units of time - in hours, minutes and seconds. Conditions: Latitude, longitude, latitude line, longitude line (or meridian), co-latitude, equator, zero meridian (chief meridian), eastern and western hemisphere, (local) midday, local time (LT), time zones, international date line, universal time (UT), Greenwich Mean Time (GMT), declination, right ascension, the first point in Ovens To this stage the student should also know and be able to write at least a few lower letters of the Greek alphabet - λ , θ , ϕ , δ and α , (lambda, feta, fi, delta, alpha), relevant (L, T, F, D, A) Stories and additional services; Origin of the word meridian and abbreviations a.m. Royal Observatory in Greenwich. Introduction of time zones. The teacher can start classes with a U.S. map in sight or on transparency. Ask: What is so special about the U.S.-Canada border? Of course, no line on the Earth's surface is straight. What looks right on the map follows the latitude line, the line at a constant distance from the pole. In this case, it is a 49-degree latitude line. Any other boundaries that follow the latitude lines? There are a lot of them. The most famous of these is probably on the borders of Pennsylvania. The northern border follows the latitude 42 line, which also forms the southern borders of Idaho and Oregon (but not the northern borders of Connecticut and Rhode Island - they are parallel, but a short distance further north). But the southern border of Pennsylvania is better known: it follows a latitude of 39° 43' (39 degrees, 43 minutes-60 minutes arc in each degree). This is the Mason-Dixon line that until 1860 formed the boundary between slaves (part of the United States is still called Dixie) and free states. One of the reasons many boundaries follow longitude lines - and those that are perpendicular to them, like the boundaries of Utah and Colorado, are latitude lines - is that such boundaries are easy to define. Let's take a closer look at these lines now. The guiding questions and additional tidbits of the questions below can be used in presentations, review afterwards or both, and suggested answers are provided. Brackets are attached comments of a teacher or optional material. This lesson is quite long, and perhaps it would be better to divide it into two parts - half of section 5 of Stargazer, towards the headline Local Time and then the other half. What are latitude and longitude used for? These are two numbers describing position of any point on the Earth's surface. Latitude and longitude are angles. What units are used to measure angles? Degrees, minutes of arc and seconds of arc (we add arcs only where we want to be sure that these terms are not confused with units of time). The straight angle contains 90 degrees, written at 90 degrees. (Angles formed by several lines, meeting at the point, all add up to 360 degrees) Each degree contains 60 minutes written 60'. Each minute contains 60 seconds, 60 is written. -- What is latitude at the equator, North Pole and South Pole? The equator is 0 degrees. The North Pole is 90 degrees or 90 degrees north latitude. At the south pole - 90 degrees or 90 degrees to the south - a unit of distance meter was originally defined as one part in 10,000,000 distance between the pole and the equator. If this distance is 90, how far does one degree correspond? 10,000,000/90 111 111 meters. -- How long does one minute of arc along the line from the pole to the equator (the longitude line) take? 111 111/60 and 1852 meters, to the nearest meter. This distance is also known as the nautical mile and is widely used in measuring distances in the sea. The speed of ships is traditionally measured by knots, and one knot is equal to one nautical mile per hour. -- At what latitude are we halfway between the equator and the pole? The latitude halfway between the equator and the north and south poles is 45 degrees, north or south. -- How do we determine the latitude of point P on the Earth's surface? We draw a radius from this point to the center of the Earth. Latitude is the angle between this radius and the plane of the equator - or, 90 minus the angle between the radius and the Earth's axis. Illustrate the picture on the board and make sure the students copy it. Riddles - The explorer walked one mile to the south, one mile to the east, one mile to the north, and returned to its original point. Where did this happen? The next may be a mystery to the house - the explorer walked one mile to the south, one mile to the east, one mile to the north, and returned to its original point - and it wasn't at the north pole. Where did this happen? About a mile and 1/6 north of the South Pole. The explorer walks 1 mile to the south, within about 1/6 mile of the pole. Then one mile to the east - which should equal the full circle around the pole, returning to where the east walk began - and then one mile to the north, back to the starting point. Any other such moments? Yes, many. For example, about 1 1/12 miles from the south pole - the same as before, but the researcher makes two chains around the pole. -- Identify the longitude of point P. Draw a radius from point to center of the Earth. The radius and axis of the Earth define the plane as the side of an orange slice. Illustrate with a picture on the board and students copy it. The line along which this aircraft meets The Earth's surface, on the P point side, is called meridian P, or its longitude line. Divide the circle of the equator at 360 degrees, with zero at the point where Premier Meridian of Greenwich, England (on the eastern outskirts of London) crosses it. The longitude of any P point is the angle at which its meridian cuts the equator. It measured from 0 to 180 east of Greenwich, or 0 to 180 west of it (sometimes marked from 0 to -180). -- America (north and south) is often referred to as the Western Hemisphere. Why? America's longitude is all west of Greenwich. - Can we point to Mars in latitude and longitude? As long as we can identify Prime Meridian, we can. Go to the rest of Section 5 related to time measurements. Then discuss: --How would you define local time on a strict, astronomical basis? Local time is the time of day, shifted so that noon occurs just when the Sun passes in the direction of north-south. More precisely, local time does it on average. He ignores the shift in a few minutes due to the fact that the Earth's orbital velocity and distance from the Sun are slightly different in its orbit. Because of this change, the length of time from noon to noon is usually very different from 24 hours. - Is local time the same at all points on the meridian? Yes, it's the same time. What are time zones? If everyone used a strict astronomical definition for local time (LT), each community would usually have a different LT. Instead, the LT is defined evenly by bands of 15 degrees wide, each band including the meridian, where it gives the correct LT and each is usually one hour apart from its neighbors. Local time inside the strip can vary up to half an hour from the exact local time. -- When it's Noon in New York, it's 9 a.m. in San Francisco and 5 p.m. in London, England. Assuming that all these cities are at the same latitude, how would you say the distances from New York --San Francisco and New York--London compare? If London is at zero longitude, what are the approximate longitudes of New York and San Francisco? London is about 1 2/3 times longer than from New York: 3 time zones from New York to San Francisco, compared to 5 from New York to London. Each time zone corresponds to 360/24 and 15 degrees, so New York should be near the longitude of 75 west and San Francisco near longitude 120 west. Actual values, 73°58' and 122°21'. - What is daylight saving time? In summer, when the sun rises earlier, we use extra daylight, moving our clock for one hour - for example, what was marked 6am in winter, now called 7am. Every day people get up earlier (also sleep earlier) and enjoy the sunshine for a longer time. - What is the International Date Line and why is it important? How one crosses time zones moving At each time zone, its local time jumps one hour early. This could move us to an earlier day. The International Date Line is a special time zone boundary, much of which follows the 180 longitude line. The line ensures that when we cross time zones we will always set the correct date in each location. Anyone who crosses this line gets a day (crossing west) or loses one day (crossing east.-- Japanese warplanes bombed Pearl Harbor in Hawaii on December 7, 1941, and thus pushed the U.S. to war against Japan. On December 8, Japanese warplanes bombed U.S. bases in the Philippine Islands. Why did they wait for an extra day? They didn't! Hawaii is on the other side of the date line from the Philippines. In fact, the attacks took place on the same day. -- What is Universal Time (UT) and what is it used for? Universal Time, UT, is local time in Greenwich, England, and anywhere else on Prime Meridian zero longitude. It is used when a single world time system is needed, for example, in the time of events observed by a scientific spacecraft, or an eruption on the Sun. -- What is the declination and right of ascent? These are coordinates resembling latitude and longitude, but instead of giving the position of place on Earth, they give a position on the sphere of heaven, for example, the position of a star. Declination - δ (delta - small Greek δ) is similar to the latitude measured in degrees, but from the North Pole, not from the equator, so that the north pole of the sky has a declination of 0, the equator has 90, and the south pole has 180. The right Ascension - α (alpha--small Greek α , or RA) is like longitude, and the meridian lines of constant RA connect the north and south poles of the sky and are everywhere perpendicular to the lines of constant declination. RA and longitude vary in different ways. First, while the zero meridian on Earth is one passing Greenwich, England, the celestial meridian on which the α No 0 is one of two points where the ecliptic crosses the celestial equator, in this case, the first point in Aries or the vernal for the equinox. And secondly, for historical reasons, RA is measured not by degrees, but by hours, every hour equal to 15 degrees (i.e. 24 hours 360 degrees). The clock is divided into minutes and seconds, but it is not the same as minutes and seconds, which are divided by degrees. Split.

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