

Periodic Phenomena

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Tidal Waves



A tsunami is a fast-moving ocean wave caused by an underwater earthquake. The water first goes down from its normal level, then rises an equal distance above its normal level, and finally returns to its normal level. The period is about 15 minutes.

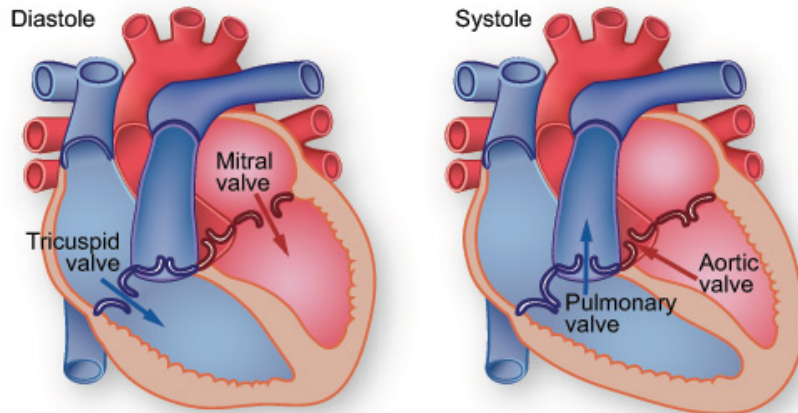
Suppose that a tsunami with an amplitude of 10 meters approaches the pier at Honolulu, where the normal depth of the water is 9 meters.

Source:

<https://pic2.me/wallpaper/223647.html>

Heartbeat

At rest, your heart beats at a rate of about 60 to 100 times a minute (a child's heart rate is higher). In an average lifetime, a heart will beat around 3 billion times.



Source: <https://www.texasheart.org/wp-content/uploads/2017/12/thi-heart-valves.jpg>

A heartbeat is a two-part pumping action that takes about a second. As blood collects in the upper chambers (the right and left atria), the heart's natural pacemaker (the SA node) sends out an electrical signal that causes the atria to contract. This contraction pushes blood through the tricuspid and mitral valves into the resting lower chambers (the right and left ventricles). This part of the two-part pumping phase (the longer of the two) is called **diastole**. The second part of the pumping phase begins when the ventricles are full of blood. The electrical signals from the SA node travel along a pathway of cells to the ventricles, causing them to contract. This is called **systole**.

Sound Waves

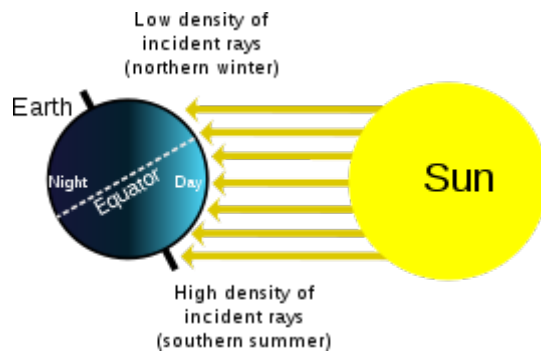


Source:<https://medicalxpress.com/news/2019-08-field-sonogenetics-behavior-brain-cells.html>

Sound Waves is a systematic synthetic phonics and word study program proven to effectively teach spelling and reading skills. The Sound Waves synthetic phonics approach focuses on the process of synthesising (i.e. taking small parts and putting them together to form a whole). It uses a sound-to-letter strategy which acknowledges that sounds can be represented more than one way in written form. This approach focuses first on phonemes – the basic units of sound. It then explores the letters that represent these sounds and how they can be put together to form written words.



Source: <https://www.mole-patrol.com/blog/blog/mole-extermination/post1>



Source:
<https://en.wikipedia.org/wiki/Season>

Season

A **season** is a division of the year marked by changes in weather, ecology, and the amount of daylight. On Earth, seasons are the result of Earth's orbit around the Sun and Earth's axial tilt relative to the ecliptic plane.

In temperate and polar regions, the seasons are marked by changes in the intensity of sunlight that reaches the Earth's surface, variations of which may cause animals to undergo hibernation or to migrate, and plants to be dormant. Various cultures define the number and nature of seasons based on regional variations.

Calendars

| December | | | | | | |
|----------|----|----|----|----|----|----|
| Su | Mo | Tu | We | Th | Fr | Sa |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |
| 2019 | | | | | | |

A **calendar** is a system of organizing days for social, religious, commercial or administrative purposes. This is done by giving names to periods of time, typically days, weeks, months and years. A date is the designation of a single, specific day within such a system. A calendar is also a physical record (often paper) of such a system. A calendar can also mean a list of planned events, such as a court calendar or a partly or fully chronological list of documents, such as a calendar of wills.

Source:

<https://en.wikipedia.org/wiki/Calendar>

Project Dissemination

I had the chance to participate in “Periodicity in our life” a very interesting, original and creative project on eTwinning platform.

eTwinning is an online community for schools in Europe and some neighbouring countries. you can make many projects On this platform . Our school participated in a project called “Periodicity in our life”. This project offers you :

- to collaborate with students from other countries
- to develop our skills and knowledge
- to learn new things
- to develop communication abilities in English
- a great experience

I would like to thank everyone for participating in this project, it was a great experience and very interesting way of learning new things. I am happy that I had the chance to be part of this project