1. Considering what you already know about the theme, and after some research, answer the following questions:
   1. What is a primary energy? (**Note:** it is possible to access the links below on the section “To Learn More…”. Use the respective keyword to find information about this question).

Primary energy is a type of energy that is found in nature and that has not undergone any conversion or treatment process. This form of energy will be subject to several processes that go through its extraction from nature, its transport, storage, and conversion into other forms of energy, such as useful energy, which can be, for example, the electricity consumed in our homes.

* 1. Which primary energies sources do you know? (**Note:** it is possible to access the links below on the section “To Learn More…”. Use the respective keyword to find information about this question).

The purpose of this question is for students to identify that there are several sources of Primary Energy on the planet, which may be renewable, that is, they are inexhaustible resources on the planet, or they may be non-renewable, which in turn will cease to exist at some point. In renewable Primary Energy sources, Wind, Hydro or Solar Energy can be highlighted, and in non-renewable Primary Energy sources, fossil fuels such as Oil, Coal and Natural Gas can be highlighted.

1. Identify the primary energy sources in the images below.



D Oil



D Solar energy



D Wind energy



D Natural gas



D Water energy

**To Learn More…**

If you would like to explore further about this class theme, on the Keywords Table there are several links available, with additional information, related to each keyword. To access this information, click on the corresponding link on the section “References”.

**Keyword Table**

|  |  |
| --- | --- |
| **Keywords** | **References Number** |
| What is primary energy | **[1] [2] [3]** |
| Primary energy sources | **[1] [2] [3]** |

**References**

**[1]** <https://www.sciencedirect.com/topics/engineering/primary-energy-source>

**[2]** [https://www.eia.gov/tools/glossary](https://www.eia.gov/tools/glossary/index.php?id=Primary%20energy)

**[3]** <https://data.oecd.org/energy/primary-energy-supply.htm>