

CLIL

► Natural substances

Vytvořeno v rámci projektu Zvýšení jazykové kompetence
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Erasmus + Vzdělávací mobilita jednotlivců - Mobilita - Mobilita pracovníků
školy



Erasmus+

What is a natural substance?

- ❖ a chemical compound or substance produced by a living organism
- ❖ found in nature

How are they being created

- ▶ Plants - photosynthesis
 - ▶ endothermic reaction
 - ▶ water, carbon dioxide, chlorophyll, the sun → glucose

- ▶ Animals - metabolic processes
 - ▶ depend on food

Metabolic processes

reaction conditions

- ❖ very dilute aqueous solutions
- ❖ almost neutral environment pH 6 - 8
- ❖ temperature range 25 - 40 °C
- ❖ highly efficient catalysts

Natural substances

▶ nutrients

lipids

carbohydrates

proteins

➤ biocatalysts

vitamines

enzymes

hormones

Natural substances

- ▶ nucleic acid
- ▶ steroids

- ▶ alkaloids
- ▶ terpenes

Vocabulary

- ▶ substance
- ▶ chemical compound
- ▶ endothermic reaction
- ▶ aqueous solutions
- ▶ effecient
- ▶ carbohydrates
- ▶ proteins
- ▶ látka
- ▶ chemická sloučenina
- ▶ endotermní reakce
- ▶ vodné roztoky
- ▶ účinný
- ▶ sacharidy
- ▶ proteiny

Match the natural substance to the sources

- ▶ proteins
- ▶ carbohydrates
- ▶ fats
- ▶ hormones
- ▶ enzymes
- ▶ vitamines
- ▶ alkaloids
- ▶ steroids
- ▶ fruits
- ▶ nicotine
- ▶ green barley, sourkraut
- ▶ meat
- ▶ olive
- ▶ grain
- ▶ Maca
- ▶ poppy

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