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## How can we avoid plastic waste at school?



Gefördert durch



Erasmus+  
Schulbildung

Protect the environment by  
coating with beeswax!

Are **beeswax food wraps** a  
sustainable alternative for plastic  
packaging of break bread and Co. ?





**Workshop:**

**Coat with  
beeswax  
for sustainable  
environmental  
protection**

**Contents:**

- 1. Bees**
- 2. Beeswax**
- 3. Evaluation by the Consumer Center  
NRW**
- 4. Manufacture of beeswax wraps**

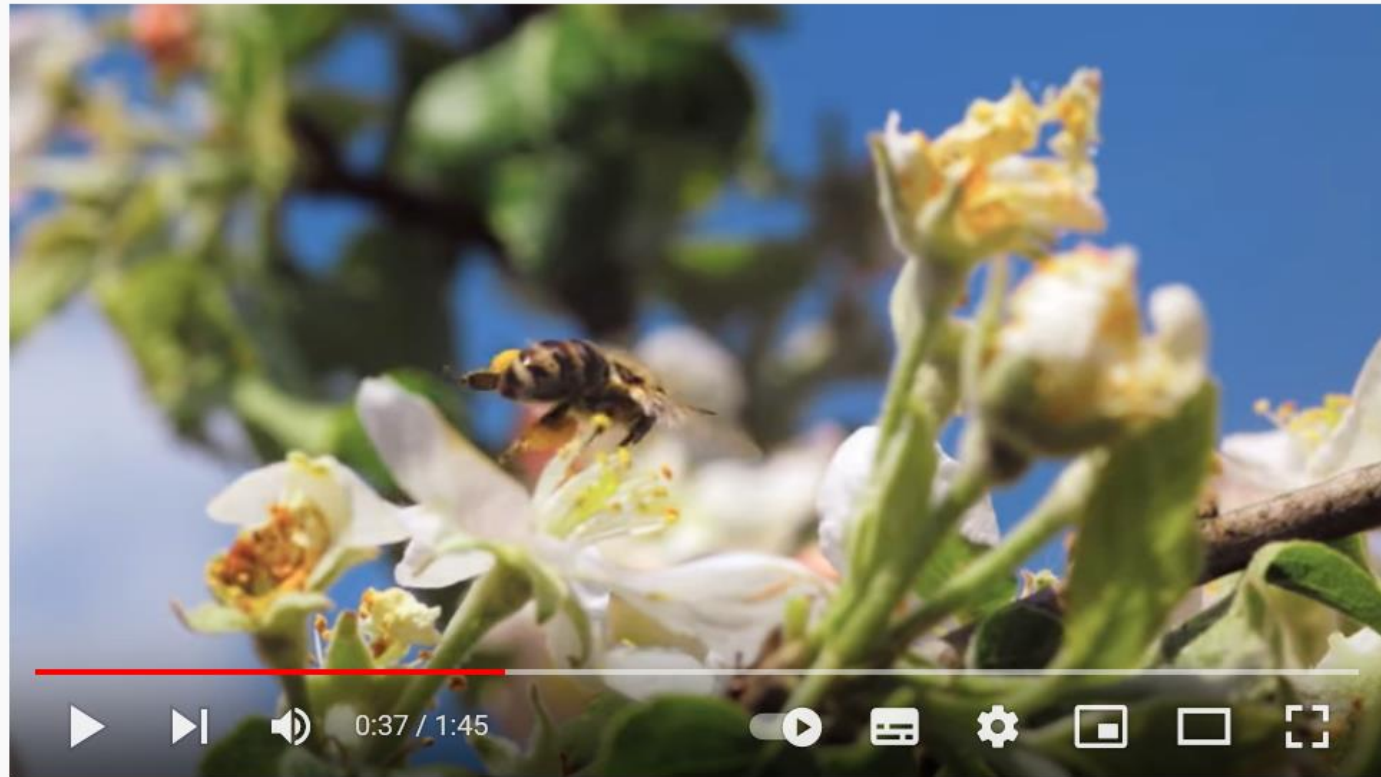
## 1. Bees



- Bees are considered pollinators are essential for biodiversity on earth.
- The honey bee – an insect as a pet: Humans use honey, wax and poison from bees (sting)



## 1. Bees



[#tagebucheinerbiene](#) [#kino](#) [#filmtrailer](#)

TAGEBUCH EINER BIENE | Offizieller Trailer

A film by director **Dennis Wells**





## 1. Bees





## 1. Bees





## 1. Bees







# Berufsbildende Schule Donnersbergkreis



## 2. beeswax



Esters of fatty acids and fatty alcohols, i. e. compounds whose molecules contain long-chain alkyl residues.

The wax platelets sweated out of the wax glands by the honey bees originally have a white colour. The yellow colour is caused by the absorption of an ingredient of the flower pollen, the pollen oil, which in turn contains the natural dye carotene.



## 2. beeswax

Freshly exuded still white wax flakes, above a centre wall of beeswax....



Zertifizierungen



Deutsche Landwirtschaft  
DE-ÖKO-003



## 2. beeswax Certification



### **3. Evaluation by the Consumer Center NRW**

If you make bee waxes yourself, you should . . .

- ✓ . . . if possible, use GOTS certified, uncolored and unprinted organic cotton and wash it before.
- ✓ . . . use 100% pure beeswax from organic farming in food quality.
- ✓ . . . do not add jojoba oil. In fact, jojoba oil is a wax which accumulated in feeding experiments in the intestinal cells of animals and led to cell destruction.
- ✓ . . . do not use mineral oil-based waxes (e. g. paraffin candle remnants) to make the wipes.



## How to make beeswax food wraps for a plastic free kitchen

### Supplies Needed:

- **Beeswax** Cosmetic-grade beeswax
- **pitch scissors**
- **parchment paper /** baking sheets
- **iron/ ironing board**
- **a piece of 100% cotton fabric**
- **cardboard as a backing**
- **brush**