

This Thursday we started our presentation of Cole Crops. It is tempting to think of these crops as cold crops because we are planting and growing them during the cooler time of year, but that would be missing the more scientific reason for their classification. The classification of Cole crop is reported to have been derived from the Latin word *Caulis* which has a number of meanings such as stem, stalk, cabbage, cabbage stem, cabbage stalk. And that is more commonly the reason, I think, we call Cole crops 'from the cabbage family'. But that really isn't much of a scientific reason is it? It turns out the story is more interesting than that and is based on more scientific observations such as their leaf patterns, their flower arrangements, and physiology not to mention a number of other points that botanists like to use. One way in which to spot a Cole crop member is to identify them by their flower shape 4 opposing petals and sepals. Their flowers are shaped like crosses – four opposing petals and sepals in the shape of a plus-sign or cross. The challenge for us is most Cole crop veggies are harvested before the flowering stage for instance cauliflower and broccoli are harvested before they present their full flower. That is the heads of cauliflower and broccoli are clusters of flower buds before they open up into flowers. Turnips are also considered a Cole crops due to their cross shaped flowers, but here the vegetable is both the root as well as the leaves. Other Cole Crop members are Arugula, Bok choy, Broccoli, Brussel sprouts, Cabbage, Cauliflower, Collard greens, Horseradish (roots and leaves), Kale, Kohlrabi (roots and leaves), Mizuna, Mustard (seeds and leaves), Radish (root and leaves), Rutabaga (root and greens), and Wasabi Watercress. It doesn't seem like there is much of a common thread to this classification does it? So while cabbage is an easier thing to remember maybe stem is important too?! What do you think?

Today we planted spinach and lettuce in the main garden, spread mulch in the orchard, and harvested yard long beans and peanut!, as well as collards, and turnips from the main garden and spinach from the orchard.

Next time we will continue learning about Cole crops. That's not a typo, I didn't mean 'cold' crops. Cole crops can be found in your manuals on page 18. You can access your manual on the website under 5<sup>th</sup> grade program. ([https://www.ofegrowers.org/uploads/8/7/5/2/87524472/ofe\\_5th\\_grade\\_science\\_and\\_math\\_gardening\\_manual\\_2022\\_-\\_2023.pdf](https://www.ofegrowers.org/uploads/8/7/5/2/87524472/ofe_5th_grade_science_and_math_gardening_manual_2022_-_2023.pdf)).

You can find the answer to what is meant by Cole Crops there. We're going to ask.

We are happy to take clean leaf/grass clippings and pine needles, if you are looking for a place to get rid of them. There is a sign at the big tree by the water tower (East parking lot) showing where to drop off the clippings or pine needles. We use them in the gardens and orchard so please feel free to drop off your bags at the drop off spot. Thank you,

We're looking forward to seeing you all in a few weeks,