

FIRST LEAVES VS. TRUE LEAVES

The first two leaves that many vegetable seedlings put forth are called **cotyledons** (*seed leaves*), which do not pattern themselves after the leaves of the mature plant. They mainly serve as "snack packs"—energy bars

for the infant plant to consume so that it can put forth its own **true leaves**. While your seedlings sport their early cotyledons, it can indeed be difficult to distinguish them from each other and from weeds!

After the true leaves emerge, which can take several weeks, you'll be able to spot more differences between seedlings as they take on the special shape and form of their kind. The cotyledons, having served their purpose, will eventually die off.

BEANS

The bean seedling's first seed leaves often appear to be heart-shaped. Its true leaves will be smooth-edged and arranged three to a stem, with two opposite each other and one above.



Bean seedling



Beet seedlings

BEETS

With proper watering, beet seedlings will emerge in five days to two weeks after planting. Young beets put forth smooth, oblong green leaves on red or pinkish/purple stems. Because several seedlings can grow from one beet seed, you may need to thin them by pinching some off at ground level.

CARROTS

Carrot seedlings in the earliest stages may be mistaken for grass because their seed leaves, unlike some other vegetable cotyledons, are tall and thin. A young carrot's true leaves, shown below, have a distinctive, fern-like shape.



Carrot seedlings



Cucumber seedling

CUCUMBERS

The oval seed leaves of emerging cucumber and squash plants look very much alike, but the cucumber's true leaves will be triangular and lobed with a fuzzy surface and serrated (toothy) edges. As the cucumber vine develops, its delicate-looking but tenacious tendrils will grip and climb anything in their path.

KALE

Kale comes in many varieties, with true leaves that may be either smooth or fancily ruffled. Its seed leaves may peek above the soil in about a week and the plants should be thinned to a foot apart when they reach five inches tall. The benefit of thinning kale is that you can enjoy the snipped seedlings in a salad!



Kale seedlings



Lettuce seedlings

LETTUCE

The many varieties of looseleaf and head lettuce are characterized by their leaves. Depending on whether the leaves will become soft or stiff, loose or bunched, lettuce seedlings will vary in appearance. Lettuce seedlings respond well to consistent watering and cooler temperatures and, if started indoors, will need to be hardened off before being planted outside.

PEAS

You won't see seed leaves emerging from pea seedlings because, unlike those of many other vegetables, pea cotyledons remain underground. Peas like to climb and will form oval leaflets with tendrils that readily wind around supports.



Pea seedlings



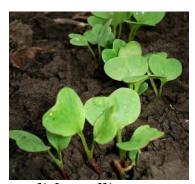
Pumpkin seedling

PUMPKINS

Pumpkin, squash, and cucumber seedlings may be hard to tell apart because they belong to the same family, the cucurbits. A pumpkin's seed leaves will be large, flat, and rounded, looking a little like small elephant ears. As it grows, a pumpkin will form huge leaves and its vines may eventually cover a lot of territory.

RADISHES

Radishes have smooth, heart-shaped seed leaves that soon give way to elongated and scalloped or gently serrated true leaves. Radishes are fast-growing, and those planted in the cool days of spring may be ready to eat in just three or four weeks. The nutritious radish leaves, or "tops," may be eaten as well as the roots.



Radish seedlings



Squash seedlings

SQUASH (SUMMER AND WINTER)

While all squash will emerge with rounded cotyledons, squash seedling leaves will vary by type the more that they grow. A summer squash will develop prickly, semitriangular, jagged-edged leaves. A winter squash leaf will generally be broader and more rounded and, while hairy, not prickly.

TOMATOES

The seed leaves of tomato seedlings are long and narrow, while the true leaves tend to have asymmetrical lobes, very similar to the leaves of the adult plant. Look for three connected (or nearly connected) leaves at the end of each branch, with one or two smaller leaves farther down the branch. The seedlings' stems and leaves may also be lined with small hairs.

