

## SPLITTING THE SEED-GRAIN AND THE FRUIT-STONE

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Lesson # 24

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July 4, 2010 Rajab 22, 1431 H

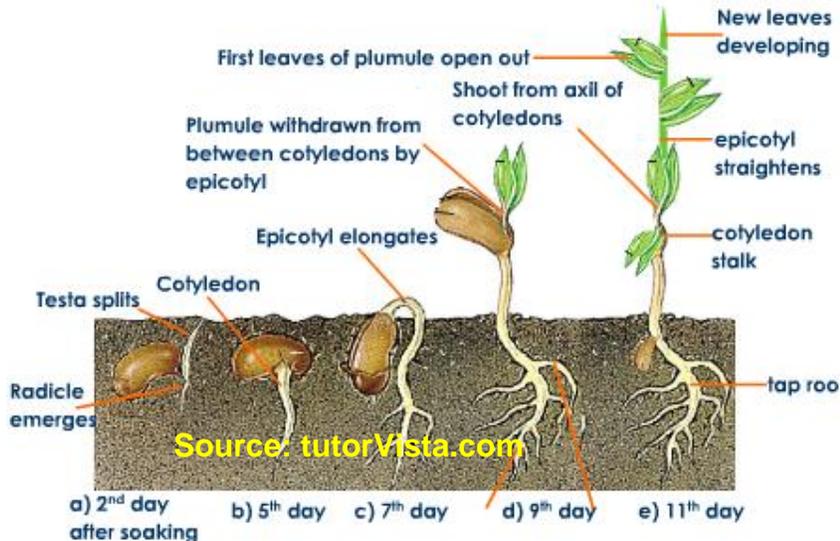
### PART 1: READ

إِنَّ اللَّهَ فَالِقُ الْحَبِّ وَالنَّوَى يُخْرِجُ الْحَيَّ مِنَ الْمَيِّتِ وَمُخْرِجُ الْمَيِّتِ  
مِنَ الْحَيِّ ذَلِكُمُ اللَّهُ فَأَنَّى تُؤْفَكُونَ ( الأنعام )

6:95 (Y. Ali) It is Allah Who causeth the seed-grain and the fruit-stone to split and sprout. He causeth the living to issue from the dead, and He is the one to cause the dead to issue from the living. That is Allah. Then how are ye deluded away from the truth? (9:95)

### PART 2: LEARN

1) Seed splitting and sprouting is a miracle performed by Allah.

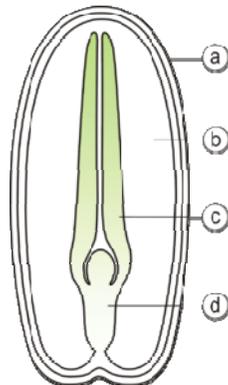


## 2) What is a seed?

“A **seed** is a small **embryonic plant** enclosed in a covering called the **seed coat**, usually with some stored food.” (Wikipedia)

## 3) How is it structured?

See the diagram to right



Source: [http://en.wikipedia.org/wiki/Seeds#Kinds\\_of\\_seeds](http://en.wikipedia.org/wiki/Seeds#Kinds_of_seeds)

Internal structure of a dicot seed and embryo:  
a) seed coat  
b) endosperm  
c) cotyledon  
d) hypocotyl.

## 4) What is the difference between “hab” and “nawa” in the Ayah (9:95)?

“Plant seeds have two distinct names in Arabic: **habb** (seed-grains or pits) and nawa (fruit-stones). The first term, habb, denotes the seeds of the edible crops such as wheat (buckwheat), barley, corn, and oats. All of these crops belong to the vascular flowering plants that have a single cotyledon in the seed. The term also includes the dicotyledonous seeds that can be found in, for example, the leguminous seeds such as beans, okra, chick peas, peas, green beans, black-eyed peas, lentils, lupine, soybeans, peanuts and fenugreek. Moreover, the term can be used to denote inedible seeds such as berseem, cotton, etc.

On the other hand, harder seeds are called **nawa**. Linguistically, the word “nawa” can be masculine or feminine. It is mentioned only once in the Ever-Glorious

Qur'an. Examples of crops with nawa include: dates, apricots, plums, peaches, olives, etc. Regardless of the nature of the seed coat, whether it is soft-delicate, thick-woody, or hard-leguminous, Allah (SWT) enables the embryo to split once it acquires the favorable conditions needed for its germination.

All crops which are used as main nutritional sources for man can be called ghalla (produce), a word never mentioned in the Qur'an. The term habb is mentioned in the Qur'an six times in five ayahs."

<http://www.elnaggazr.com/en/main.php?id=95>

5) What are the stages of seed germination?

"A) Seed absorbs water and seed coat gets burst. It is the first sign of germination. There is an activation of enzymes, increase in respiration and plant cells get duplicated. A chain of chemical changes starts which leads to development of plant embryo.

B) Chemical energy stored in the form of starch is converted to sugar, which is used during germination process. Soon, embryo gets enlarged and seed coat burst opens.

C) Growing plant emerges out. Tip of root first emerges and helps to anchor the seed in place. It also allows embryo to absorb minerals and water from soil.

D) Some seeds require special treatment of temperature, light or moisture to start germination.

E) Steps of seed germination can be different in dicots and monocots."

<http://www.buzzle.com/articles/steps-of-seed-germination.html>

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### PART 3: THINK & CONNECT

Why did Allah associate Himself with seed splitting and sprouting?

Please watch this clip about seed germination and join me in saying:  
Subhana Allah

<http://www.youtube.com/watch?v=rDN0yAFcQok&feature=related>