**Day 1:** Sperm joins with ovum (egg) to form one cell. The new life has 46 human chromosomes and contains the complex genetic blueprint for every detail of human development—the child's sex, hair and eye color, height, skin tone, etc.

**Day 3-9:** The miniscule child travels down the fallopian tube into the uterus (womb), implants in its rich lining and begins to draw nourishment.

**Day 21:** The heart begins to beat. Foundations of the brain, spinal cord and nervous system are already established.

**Day 28:** The backbone and muscles are forming. Arms, legs, eyes and ears have begun to show.

Day 35: ► Five fingers can be discerned in the hand.





Lennart Nilsson

Veeks

**Day 40:** Brain waves can be detected and recorded.

## • Week 6:

The liver is now taking over the production of blood cells, and the brain begins to control movement of



Week 8:

oped adult.

muscles and organs. The mother is about to miss her second period and has probably confirmed that she is pregnant.

**∢ 7 Weeks:** The embryo begins to move spontaneously. The jaw forms, including teeth buds in the gums.

#### Week 9:

Fingerprints are evident in the skin. The fetus will curve his fingers around an object placed in the palm of his hand.

#### Week 12:

The fetus can squint, swallow and wrinkle his forehead. He urinates, sleeps, and exercises his muscles energetically turning his head, curling his toes, and opening and closing his mouth. His palm, when stroked, will make a tight fist. Vocal chords are present. In rare cases where air has entered the uterus, the fetus has been heard crying.

Institute



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A little more than an inch long. Now called a fetus—Latin for "young one" or "offspring." Everything is now present that will be found in a fully devel-

The stomach produces digestive juices and the kidneys have begun to function. The fetus' body responds to touch.

### Month 4: ▶

Fine hair has begun to grow on the head, and sexual differentiation has become apparent. By the end of this month the fetus can hear quite a bitthe mother's voice and heart-



beat and external noises.



▲ Month 5:

The fetus is about 12 inches long and may jump in reaction to an especially loud or startling sound.

#### Month 6: Oil and sweat glands are

functioning. If the baby were born in this month and given proper care, he would survive.

Month 7: The fetus now uses the four senses of vision, hearing, taste and touch. He can recognize his mother's voice.

**Month 8:** The skin begins to thicken, with a layer of fat stored underneath.

Month 9: Toward the end of this month, the fetus is ready for birth.



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# Human Beginnings



Fertilization to **Birth**