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| Name: |

Fetal Development Assignment

SASE 9 – McDade

November 2, 2017

INSTRUCTIONS: Go to the following link: <https://www.babycenter.ca/pregnancy-week-by-week> and use the information you read/ videos you watch to fill out the following chart on human development during pregnancy. Fill out the document on the computer or by hand. Complete the sketches by hand. Print your work double sided.

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| Week # | Size and Weight | Information |
| 1-3 (fertilization) |  | * The starting point for the 40 week human gestation period is the woman’s last \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* During day \_\_\_\_\_\_\_\_ of a typical 28 day cycle a woman ovulates and an egg is swept into a fallopian tube
* An egg has \_\_\_\_\_\_ to \_\_\_\_\_\_ hours to be fertilized by sperm
* An average male ejaculation contains \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ sperm
* Once fertilized an egg is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* The fertilized egg undergoes mitosis and grows as it travels toward the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ where it will eventually implant
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| 4 |  | * The ball of cells is now called an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and has 3 layers
* The top layer forms the \_\_\_\_\_\_\_\_\_\_\_\_\_ tube from which the brain, backbone, spinal cord and nerves will sprout
* The middle layer form the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ system
* The inner layer will develop into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, intestines and and the urinary system
* The early version of the \_\_\_\_\_\_\_\_\_\_\_\_\_, chorionic villi and umbilical cord are working
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| 5 |  | * The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is dividing into chambers and has begun to beat and pump blood
* The upper and lower \_\_\_\_\_\_\_\_\_\_ buds start to sprout
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are forming in the eyes
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a nutrient that women need to take during this period of pregnancy to ensure proper brain development of the baby’s central nervous system
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| 6 |  | * Embryo has an oversized \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in proportion to its body
* The embryo’s hands and feet look like \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* The embryo’s heart beats at \_\_\_\_\_\_\_\_\_\_ beats/ min
* The embryo makes its first \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as a result of the growth of muscle fibres
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| 7 |  | * The embryo’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_ produces large amounts of red blood cells at this stage
* The embryo’s \_\_\_\_\_\_\_\_\_\_\_\_\_ is paper thin
* Many women experience \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ during this trimester making it difficult to keep food down; they also \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ more often than usual
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| 8 |  | * The embryo is now called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and it has lost its embryonic \_\_\_\_\_\_\_\_\_\_\_\_.
* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ bend at the wrist and the feet lose their \_\_\_\_\_\_\_\_\_\_\_\_\_\_ appearance
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cover the eyes
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| 9 |  | * The inner workngs of the \_\_\_\_\_\_\_\_\_\_\_\_ are complete – let the singing begin!
* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_ have begun to form but the baby’s sex can’t yet be determined
* Chorionic villus sampling (CVS) is an option in the next 3 weeks to screen for birth \_\_\_\_\_\_\_\_\_\_\_\_\_
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| 10 |  | * The \_\_\_\_\_\_\_\_\_\_\_\_\_\_ organs are fully formed and functional
* The \_\_\_\_\_\_\_\_\_\_\_\_ is half the length of the entire body
* A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, a hand-held stethoscope allows you to hear the fetus’ heartbeat
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| 11 |  | * Chances of a woman having a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ drop considerably after the next couple of weeks
* The fetus’ movements are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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| 12 |  | * They \_\_\_\_\_\_\_\_\_\_ have moved closer together and the \_\_\_\_\_\_\_\_\_\_ are almost in their normal position on the side of the head
* The fetus has acquired more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (i.e. touching the palms makes the fingers close)
* A doctor or midwife can feel the fundus – the top of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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| 13 |  | * If the fetus is a female she has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ eggs in her ovaries but by 17 the number will have dropped to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* This weeks marks the mother’s entry into the \_\_\_\_\_\_\_\_\_\_\_ trimester
* The mother may start to make \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the fluid that will feed the baby for the first few days of life
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| 14 |  | * The skin covers itself with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - ultra-fine downy hair
* The fetus may be able to \_\_\_\_\_\_\_\_\_\_\_\_\_ its thumb
* If you are a mother over the age of \_\_\_\_\_\_\_\_\_\_ you may wish to consider screening tests such as maternal serum screening (the triple test) or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
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| 15 |  | * The fetus frequently gets the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which it must master before breathing
* Fetuses don’t make sounds because their \_\_\_\_\_\_\_\_\_\_\_\_\_ is filled with fluid not air
* An ultrasound at this stage may reveal the baby’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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| 16 |  | * The fetus can play with the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by pulling and grabbing
* The fetus is inhaling \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fluid through the lungs
* The mother’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the side of her uterus and pelvic walls are stretching
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| 17 |  | * The fetus’ skeleton is mostly \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which will harden later
* The protective substance \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ wraps around the spinal cord
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| 18 |  | * The fetus’ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ moves up and down to mimic breathing
* An \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ scan is done around this time to assess fetal development, screen for birth defects and check gestational age
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| 19 |  | * \_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the scalp is sprouting
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ development reaches its peak this week
* Many mothers feel \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at this time
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| 20 |  | * The whitish fatty substance called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ covers the baby and protects its skin
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| 21 |  | * The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cover the fingertips
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| 22 |  | * The \_\_\_\_\_\_\_\_\_\_\_ in the fetus’ eyes lack pigment
* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which produces hormones, develops steadily
* First signs of teeth appear in the form of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ beneath the um line
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| 23 |  | * The fetus can hear many things including \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* A mother may seem clumsy at this stage because her \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ has shifted
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| 24 |  | * The fetus is growing rapidly and filling space in the mother’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Women may notice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ start to appear on their abdomens, hips and breasts
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| 25 |  | * Studies done showing fetal response to light shone on a mother’s abdomen indicate that the fetus’ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is working
* Testing blood pressure and urine can detect and treat conditions such as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (placenta isn’t working properly) and diabetes
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| 26 |  | * The baby’s \_\_\_\_\_\_\_\_\_\_\_ begin to open
* The mother’s nutritional considerations are especially important at this stage because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ development is so intense
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| 27 |  | * Some researchers believe that babies begin to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at this point in development while sleeping
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the brain’s surface start to appear
* if the mother was Rh-negative earlier in the pregnancy she’ll be tested for Rh \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and have an injection to combat the incompatibility
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| 28 |  | * This week marks the start of the \_\_\_\_\_\_\_\_\_\_\_ trimester
* The baby’s \_\_\_\_\_\_\_\_\_\_\_\_\_ layers are forming
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| 29 |  | * If the fetus is a boy, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ may start to descend near the kidneys through the groin en route to the scrotum
* \_\_\_\_\_\_\_\_\_\_\_\_ growth is rapid at this time
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| 30 |  | * The baby’s \_\_\_\_\_\_\_\_\_\_\_\_\_ and digestive tract are almost fully developed and will continue to gain \_\_\_\_\_\_\_\_\_\_\_\_\_ until birth
* Mothers start to feel breathless because their uterus pushes on their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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| 31 |  | * Between now and delivery the baby will gain about \_\_\_\_\_ more pounds
* The fetus is passing \_\_\_\_\_\_\_\_\_\_\_\_\_ from the bladder
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| 32 |  | * The mother is gaining \_\_\_\_\_\_\_\_\_ pound a week at this stage because the baby is likely to gain half its birthweight during the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ weeks before delivery
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| 33 |  | * Many babies move at this point to have their heads facing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* The baby’s skull is pliable and not completely joined so it can ease out of the narrow \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ but the rest of the bones in the body are hardening
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| 34 |  | * \_\_\_\_\_\_\_\_\_\_\_% of babies born at week 35 can survive outside the womb
* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is still developing but the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are nearly fully developed
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| 35 |  | * The fetus has a fully developed pair of \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* The mother’s uterus has expanded to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ times its original size
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| 36 |  | * The fetus continues to gain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* By the end of this week the pregnancy is \_\_\_\_\_\_\_\_\_\_\_\_\_ and a mother could give birth any day
* A baby before 37 weeks is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and after 42 is \_\_\_\_\_\_\_\_\_\_\_\_\_.
* A doctor/ midwife may check the cervix to see if it is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(cervix opens) and \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (cervix thins)
 |
| 37 |  | * The baby’s head is protected by the \_\_\_\_\_\_\_\_\_\_\_ bones
* The baby will swallow the lanugo (downy coat) and exterior coating along with other secretions and store them in its \_\_\_\_\_\_\_\_\_\_; they will become the infant’s first bowel movement, a blackish waste called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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| 38 |  | * The fetus continues to build \_\_\_\_\_\_\_\_\_\_ stores to help regulate body temperature after birth
* The organ systems are fully developed but the \_\_\_\_\_\_\_\_\_ are the last to reach maturity
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| 39 |  | * The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ once clear is now pale and milky
* The mother’s first \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ may take place hours after membranes rupture/ waters break
* Only \_\_\_\_\_\_\_\_% of babies are born on their scheduled date
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| 40 |  | * Baby continues to shed the greasy white substance called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and will have slightly \_\_\_\_\_\_\_\_\_ skin if labour/ birth takes another week
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Sketches of fetal development

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| Week # | Illustration | Week # | Illustration |
| 6 |  | 13 |  |
| 8 |  | 23 |  |
| 10 |  | 40 |  |