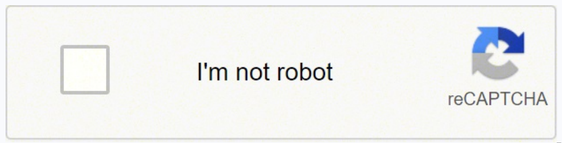

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Embryo and fetal development worksheet answers pdf answers pdf printable

This is a fluid in the breasts that nourishes the baby until the breastmilk becomes available. The genetic engineering of a human child, the production of “designer babies” with desirable phenotypic characteristics, was once a topic restricted to science fiction. By 38 to 40 weeks, the lungs have matured fully. Stretch marks may appear on the stomach, breast, thighs, and buttocks. What to expect during the third trimester The third trimester marks the home stretch, as you get ready for the birth of your baby. Hair may start to grow on your arms, legs, and face because hormones are stimulating the hair follicles. Fetal development during the third trimester includes: The fetus can see and hear. Here is a list of changes and symptoms that you may have during the third trimester: Increased skin temperature as the fetus radiates body heat, causing you to feel hot. For example, to those who take the position that human life begins at conception, the discarding of unused embryos, a necessary result of PGD, is unacceptable under any circumstances. Need to urinate more often because of increased pressure on the bladder. The goal of creating genetically superior humans was quite prevalent (although controversial) in several countries during the early 20th century, but fell into disrepute when Nazi Germany developed an extensive eugenics program in the 1930’s and 40’s. White-colored vaginal discharge (leukorrhea) may increase and contain more mucus. Efforts have been made in the past to control traits in human children using donated sperm from men with desired traits. Still others, including the United States, have taken a scattershot approach to regulating these practices, essentially leaving it to the individual practicing physician to decide which practices are acceptable and which are not. Currently, countries such as Great Britain have banned the selection of a child’s sex for reasons other than preventing sex-linked diseases. The fetus can suck its thumb and can cry. Breastfeeding is best for your baby. By the 36th week, the head may "engage" (drop into the pelvic area). As part of their program, the Nazis forcibly sterilized hundreds of thousands of the so-called “unfit” and killed tens of thousands of institutionally disabled people as part of a systematic program to develop a genetically superior race of Germans known as Aryans. Backaches may continue and get worse. The ethical and moral line is not always clear or agreed upon, and some fear that modern reproductive technologies could lead to a new form of eugenics. This is a creamy, protective coating on the skin. This is a process called "lightening." The bones of the skull stay soft to make it easier to pass through the birth canal. The term PGD usually refers to both the diagnosis, selection, and the implantation of the selected embryos. Eugenics is the use of information and technology from a variety of sources to improve the genetic makeup of the human race. Other countries allow the procedure for “family balancing”, based on the desire of some parents to have at least one child of each sex. During the third trimester, both your body and the fetus continue to grow and change. At about the 38th week of the pregnancy, your provider will do a pelvic exam to find out the dilation and effacement of the cervix. Your hair may also feel coarser. Not usually covered by medical insurance and thus out of reach financially for most couples, only a very small percentage of all live births use such complicated methodologies. PGD involves the screening of human embryos as part of the process of in vitro fertilization, during which embryos are conceived and grown outside the mother’s body for some period of time before they are implanted. With the ability of technology to progress rapidly and unpredictably, a lack of definitive guidelines for the use of reproductive technologies before they arise might make it difficult for legislators to keep pace once they are in fact realized, assuming the process needs any government regulation at all. You may have dark patches of skin on your face. Hemorrhoids may continue and get worse. This is because the skin continues to grow and stretch. The major limitation to this procedure is its expense. You will continue to gain weight and begin to have false labor contractions (Braxton-Hicks contractions). Your visits may be scheduled once every week in the last month. You may feel more uncomfortable now. This schedule will be based on your health condition, the growth and development of the fetus, and your provider's or midwife's preference. Varicose veins in the legs may continue and get worse. The kidneys and lungs continue to mature. Many phenotypic choices for offspring are already available, with many more likely to be possible in the not too distant future. Changes in your body In the third trimester, you may become more uncomfortable as your due date nears. He or she will also talk with you about labor and delivery procedures. The fetus starts to position itself head-down. Fetal development during the third trimester During the third trimester, the fetus continues to grow in size and weight. To others, to purposely cause a disability in a child violates the basic medical principle of Primum non nocere, “first, do no harm.” This procedure, although not illegal in most countries, demonstrates the complexity of ethical issues associated with choosing genetic traits in offspring. During the second and third trimester prenatal visits, your healthcare provider or midwife may check the following things. This is the case no longer: science fiction is now overlapping into science fact. As shown above, each woman carries her baby differently. The brain continues to develop. They argue that these types of procedures will always be expensive and rare, so the fears of eugenics and “master” races are unfounded and overstated. Or you may not have any discomfort as you anxiously await the arrival of your new son or daughter. Colostrum may start to leak from your nipples. How far would you go to maximize the possibility of resistance to disease? By excluding embryos containing these alleles from implantation into the mother, the disease is prevented, and the unused embryos are either donated to science or discarded. Leg cramps may happen more often. As the fetus grows in size and crowds the abdominal cavity, you may have a hard time taking deep breaths or getting comfortable at night for sleep. It depends on her body structure and amount of weight gain. In more recent times, the procedure known as prenatal genetic diagnosis (PGD) has been developed. The debate continues. In fact, eugenicist Robert Klark Graham established a sperm bank in 1980 that included samples exclusively from donors with high IQs. The “genius” sperm bank failed to capture the public’s imagination and the operation closed in 1999. There are relatively few in the worldwide medical community that question the ethics of this type of procedure, which allows individuals scared to have children because of the alleles they carry to do so successfully. Yet, even in cases like these where the ethical issues may seem to be clear-cut, not everyone agrees with the morality of these types of procedures. If you could prevent your child from getting a devastating genetic disease, would you do it? The head will often turn downward during the last couple of weeks of pregnancy. Dry, itchy skin may continue, particularly on the stomach. For many babies, the irises of the eyes are slate blue. False labor (Braxton-Hicks contractions) may start at irregular intervals in preparation for childbirth. Where could this process lead? Ever since, eugenic ideas have not been as publicly expressed, but there are still those who promote them. Other bioethicists argue that we should only deal with technologies that exist now, and not in some uncertain future. Your sexual drive may drop. By 38 to 40 weeks, the fetus' lanugo has almost all gone away. Your provider or midwife will ask about any contractions. Will this technology become more affordable and how should it be used? Exactly what they check depends on your current health condition and the health of the fetus: Any current symptoms or discomforts Your weight Your blood pressure Your urine for a protein called albumin that may be a sign of preeclampsia or toxemia, and sugar that may be a sign of hyperglycemia Position, growth, and development of the fetus Height of the top of the uterus (fundus) Fetal heartbeat As you start the third trimester, your healthcare provider or midwife may change the schedule of your prenatal visits from every month to every 2 weeks. Even murkier are rare instances of disabled parents, such as those with deafness or dwarfism, who select embryos via PGD to ensure that they share their disability. During the third trimester, it's a good idea to start taking childbirth classes to get ready for the big day. Talk with your healthcare provider about the benefits of breast milk. In the least controversial use of PGD, embryos are tested for the presence of alleles which cause genetic diseases such as sickle cell disease, muscular dystrophy, and hemophilia, in which a single disease-causing allele or pair of alleles has been identified. A murkier ethical situation is found in the selection of a child’s sex, which is easily performed by PGD. The permanent eye color will not appear until several days or weeks after birth. By the end of the third trimester, the fetus is about 19 to 21 inches long and weighs about 6 to 9 pounds. The lungs are still maturing. This is especially true if this is your first pregnancy. Figure 24.27. This logo from the Second International Eugenics Conference in New York City in September of 1921 shows how eugenics attempted to merge several fields of study with the goal of producing a genetically superior human race. Swelling of the ankles, hands, and face (edema) as you keep retaining fluids. The fetus continues to grow in weight and size, and the body systems finish maturing. Skin pigmentation may become more apparent. These parents usually cite many positive aspects of their disabilities and associated culture as reasons for their choice, which they see as their moral right. The baby is covered in vernix caseosa (or simply called vernix). Which traits should be selected and how they should be selected are topics of much debate within the worldwide medical community. Would you select the sex of your child or select for their attractiveness, strength, or intelligence? Constipation, heartburn, and indigestion may continue.

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