J809 – Cambridge Nationals Level 1/2 Child Development R057 – Health and Wellbeing for Child Development TA1: Pre-conception health and reproduction

	1.1. Factors affecting pre-conception health for women and men		
Factors that affect the decision to have children			
– Rela	ationship between partners – Finance – Parental age – Per pressure/social expectations – Genetic counselling for hereditary disease		
	Factors that can contribute to infertility problems		
Weight	 Women – Being overweight can affect ovulation, which can in turn affect fertility and make it harder to conceive. Being underweight can affect periods and ovulation, which can both affect fertility and make it harder to conceive. Men – Being overweight may affect the quality and quantity of sperm. Being underweight can also 		
	reduce a man's sperm quality and therefore his fertility.		
Smoking	Smoking can make conception more difficult. The risk for fertility problems increases with the number of cigarettes smoked each day. Women – Fertility can be affected.		
	Men – May have a lower sperm count and may also produce a higher proportion of abnormal sperm.		
Drinking alcohol	 Men – Drinking excessive alcohol can cause men to have lower sperm counts, and it can affect the quality of sperm. Women – Even drinking lightly can have an effect on women's fertility. 		
Taking recreational drugs	Recreational drug use can affect fertility in both men and women. If taken over a long period of time, recreational drugs can cause permanent problems with the reproductive system and infertility.		
Parental age	 Women – As a woman ages, her ability to conceive and the quality of her eggs begin to decline. This decline becomes more rapid after the age of 35. Men – Men produce sperm all their adult life, including into old age. As long as they are capable of sexual intercourse, men can father children. 		
	1.2. Other factors affecting the pre-conception health for women		
Folic acid	Taking folic acid during pregnancy can help prevent birth defects known as neural tube defects. This includes spina bifida, a condition where a baby's spine and spinal cord do not develop properly. Women are advised to take 400 micrograms (mcg) of folic acid per day as a supplement before conception and until the 12 th week of pregnancy. They should also eat folate-rich foods such as green vegetables, brown rice and fortified breakfast cereals, to consume a combined total of 6000 mcg of folate a day from folate-rich foods and a supplement.		
Up-to-date	Keeping immunisations up to date will contribute to keeping a woman healthy both before and		

during pregnancy. This in turn benefits the baby.





FOLIC ACID
Found naturally in leafy green veggies
Importance in early pregnancy



Found naturally in milk & cheeses
 Takes longer for reserves to build



Found naturally in lean red meatsHelps prevent anemia



• Found naturally in raspberries & citrus fruits
 • Boosts iron absorption





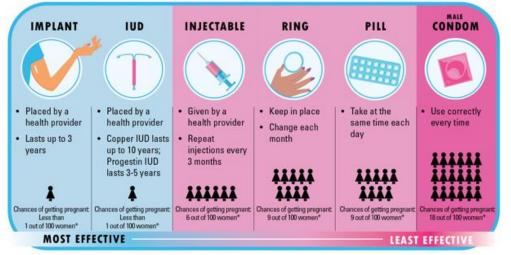
immunisations

J809 – Cambridge Nationals Level 1/2 Child Development R057 – Health and Wellbeing for Child Development TA1: Pre-conception health and reproduction

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1.3. Types of contraception methods and their advantages and disadvantages					
	Barrier Methods		Horm		
Method:	Male and female condoms – A male condom is a sheath made from	Method:	Contraceptive pills: C		
wiethod:	latex. A female condom is a sheath made from polyurethane.	Wethou.	(oestrogen and proge		
Advantage	It helps protect against many STIs.	Advantage	Using this method do		
Disadvantage	Can come off or split open, making it ineffective.	Disadvantage	Ineffective if the wom		
Mathad	Diaphragm or cap – A dome-shaped piece of latex or silicone that		Contraceptive pills: P		
Method: Advantage Disadvantage	covers the cervix.	Method:	cervix to thicken so th		
Advantage	Helps to protect against some STIs.		egg.		
Disadvantage	Can cause cystitis.	Advantage	Can be used immedia		
	Natural Family Planning		Side effects: spot-pro		
	Temperature – Monitoring her temperature.		Contraceptive injection		
Methods:	Cervical Mucus – Monitoring bodily secretions.	Method:	which causes the muc		
Calendar –	Calendar – Monitoring the dates in her menstrual cycle.		cannot come into con		
Advantage	Methods are compatible with all cultures and faiths (because some	Adventere	Suitable for those whe		
	do not permit the use of contraception).	Advantage	time each day.		
Disadvantage	Requires rigorous tracking and monitoring to be accurate.	Disadvantage	After stopping the inj		
	-	Disauvantage			

HOW EFFECTIVE IS YOUR BIRTH CONTROL?



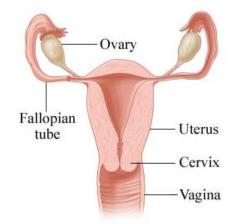
Ι		Hormonal Methods			
	Mathad	Contraceptive pills: Combined pill – A tablet containing hormones			
	Method:	(oestrogen and progestogen) that prevent ovulation.			
	Advantage	Using this method does not interrupt sex.			
	Disadvantage	Ineffective if the woman vomits or has severe diarrhoea.			
		Contraceptive pills: Progestogen-only pill – Causes the mucus in the			
	Method:	cervix to thicken so that sperm cannot come into contact with an			
		egg.			
	Advantage	Can be used immediately after giving birth.			
	Disadvantage	Side effects: spot-prone skin, tender breasts, irregular periods.			
		Contraceptive injection – An injection received every few weeks			
	Method:	which causes the mucus in the cervix to thicken so that sperm			
		cannot come into contact with an egg.			
	Advantage	Suitable for those who find it difficult to take a tablet at the same			
	Auvantage	time each day.			
	Disadvantage	After stopping the injections, it can take up to a year to get fertility			
	Disadvantage	levels back to normal.			
		Contraceptive implant – A health professional will insert a small			
	Method:	flexible tube into the skin of a woman's upper arm which releases			
		progestogen hormone into the body.			
	Advantage	Can be used immediately after giving birth.			
	Disadvantage	Periods may change to become lighter, or heavier and longer.			
	Method:	Intrauterine device/system – A small T-shaped plastic device			
		inserted into the uterus which releases progestogen hormone.			
	Advantage	Effective for 3-5 years, depending on the type.			
	Disadvantage	May make periods lighter, shorter or stop altogether.			
	Method:	Contraceptive Patch – Worn on the skin and introduces hormones			
		(oestrogen and progestogen) to the body.			
	Advantage	Still effective if the woman vomits or has severe diarrhoea.			
	Disadvantage	Side effects: Headaches and raised blood pressure.			
	Method:	Emergency contraceptive pill – Prevents pregnancy after a woman			
		has had unprotected sex or contraception method has failed.			
	Advantage	Available free of charge from some clinics.			
	Disadvantage	Must be taken within a specific time frame (3 or 5 days).			



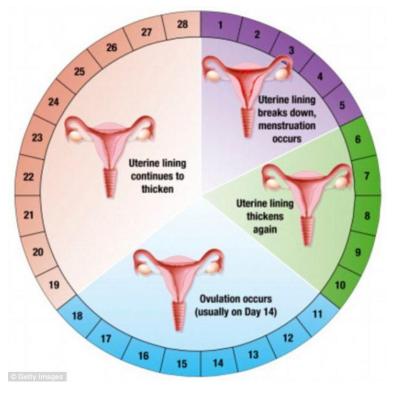
J809 – Cambridge Nationals Level 1/2 Child Development R057 – Health and Wellbeing for Child Development TA1: Pre-conception health and reproduction

1.4. The structure and function of the reproductive systems

The female reproductive system			
Ovaries	Control the production of the hormones oestrogen and progesterone, which govern the development of the female body and menstrual cycle. Inside the ovaries are undeveloped egg cells called ova.		
Fallopian tubes	These tubes connect the ovaries to the uterus and are lined by minute hairs called cilia. Each month, one of the ovaries releases an egg into a tube, and the hairs help the egg to reach the uterus.		
Uterus/womb	This is where the foetus grows and develops. It is here that an egg will become implanted.		
Cervix	This is a very strong ring of muscles between the uterus and vagina, and it is usually closed. It keeps the foetus securely in place in the womb throughout pregnancy. The cervix dilates (opens) during labour to allow the baby to be born.		
Vagina	Connects the cervix to the outside of the body. It is here that the man's penis enters the body during sex. Folds of skin called labia meet at the entrance of the vagina, forming the vulva. Urine passes through the urethra, which opens into the vulva but is separate from the vagina.		
The menstrual cycle	This is the cycle in which women have their periods and are fertile (can conceive). Girls begin having periods when they are sexually mature (average age: 12) until menopause (average age: 51).		



	Male reproductive system			
		The scrotum contains two testes. These make millions of sperm		
	Testes	and produce hormones including testosterone, which governs		
		the development of the male body.		
	Sperm duct system/epididymis	The sperm duct system consists of the epididymis, which		
		contains the sperm, and the vas deferens, which are the sperm		
	system/epididynns	ducts (tubes) that sperm pass through.		
	Urethra	This tube inside the penis carries both urine and semen, but not		
		both at the same time. A ring of muscle controls this.		
	Penis	Vas deferens: A muscular tube that extends upwards from the		
		testicles, transferring semen that contains sperm to the urethra		
		Seminal vesicles: A pair of glands found in the male pelvis. The		
		glands produce many of the ingredients of semen.		





J809 – Cambridge Nationals Level 1/2 Child Development **R057** – Health and Wellbeing for Child Development

TA1: Pre-conception health and reproduction

1.5. How reproduction takes place		1.6. The signs and symptoms of pregnancy	
Ovulation	Around day 14 of the menstrual cycle, an egg is released from one of the ovaries and travels along the Fallopian tube.		Become largerFeel tender
Conception/ fertilisation	A sperm penetrates an egg following ejaculation of sperm from the penis into the vagina. The sperm passes through the cervix and uterus, and meets the egg in the Fallopian tube and loses its tail. The egg and sperm then fuse as one cell. The fertilised egg continues along the Fallopian tube. Between 4-5 days later, there is a mass of around 16 cells. This forms a ball of	Breast changes	 Feel tingling Veins more visible Nipples appear darker Nipples stand out
	tissue (the blastocyst). After around another 7 days, the fertilised egg arrives in the uterus and implants itself in the	Missed period	 The first sign of pregnancy is a missed period or a very light period.
Implantation	enriched lining. Once it is attached firmly, conception has been achieved and the egg is called an embryo.		 Feeling sick and nauseous, and/or vomiting during pregnancy can occur at any time of
	 Amniotic fluid: The protective liquid which is contained in an amniotic sac. This provides a cushion for the foetus, helping to keep it safe from bumps and injury. It also contains nutrients, hormones and antibodies for the baby. Umbilical cord: A tube that connects the foetus to the mother during pregnancy. It has a vein that takes food and oxygen from the placenta to the baby, and two arteries that carry waste from the baby to the placenta. 	Nausea	day. – This symptom generally begins 6 weeks after a pregnant woman's last period.
Development of the embryo and foetus		Passing urine frequently/ discharge	 Pass urine more frequently Constipation Increase of vaginal discharge
and loetus	Placenta: An organ that develops in the mother's uterus during pregnancy. It is attached to the wall of the uterus. The baby's umbilical cord arises from the placenta. The placenta supplies oxygen and nutrients to the baby and removes waste from the baby's blood. How the embryo becomes a foetus: At the age of 8 weeks, the embryo becomes a foetus.	Tiredness/ emotional	 Women may feel tired or exhausted, particularly during the first 12 weeks of pregnancy, because of hormonal changes in the body.
Multiple pregnancies	Identical twins: One fertilised egg divides into two cells. Non-identical/fraternal twins: Two separate eggs are released and fertilised by two different sperm.		 These hormonal changes can also cause a woman to feel emotional and upset at this time.

I TRIMESTER

II TRIMESTER







4 MONTH







III TRIMESTER



1 MONTH

2 MONTH

3 MONTH

5 MONTH

6 MONTH

7 MONTH

8 MONTH

9 MONTH