

## E - Bio Worksheet

## **Miracle of Life Questions**

The egg travels through the \_\_\_\_\_\_ after being released from the

Watch the video, and answer these questions while you are watching. If you miss something, fill it in at the end.

## THE PATH TRAVELED BY THE EGG

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The fertilized egg contains	from both parents.	
The egg is surrounded by a cloud of	·	
These hairs, called	_ move the egg along towards the uterus.	
It takes the egg days to travel of	inches along the fallopian tube.	
The egg must join with a sperm within	hours i0n order for conception to take place. If no	
sperm are present the egg	·	
WHEN SPERM ENTERS THE FEMALE BO	nnv	
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Nearly of the sperm will die almost immediately after entering the woman's body.		
Sperm will remain viable (able to survive) only hours.		
The sperm have one goal:		
There are many barriers (things to overcome) for a sperm to reach the egg. Some of these are:		
1		
2		
3		

SPERM ENTER THE FALLOPIAN TUBE			
The fallopian tube has openings; one leads to the and the other to			
Of the 200 million sperm that enter, only about ever reach the egg.			
Only sperm will enter and fertilize the egg.			
Once inside the egg, the sperm undergoes a big change, it			
The genetic material is released from the			
Within hours, the new cell begins to divide.			
THE EMBRYO DEVELOPS INTO A FETUS			
Once it has begun to divide the fertilized egg is called a			
As the zygote divides, it moves along the fallopian tube toward the			
Number of weeks since fertilization			
has elongated (grown long)			
it is barely 1/10 <sup>th</sup> of an inch long			
has arm buds, and is curled			
it has the beginning of eyes			
nose begins to take shape			
leg buds appear			
embryo is less than inch long			
it floats inside the fluid filled amniotic sac			
its is clearly visible			

can move its \_\_\_\_\_, where there are clearly defined fingers

the \_\_\_\_\_ of the feet are clearly visible

embryo is 3/4 of an inch long

its \_\_\_\_\_ are visible

eye lenses are formed

fingers are clearly seen

embryo is 2 ½ inches long	
it can bring its hands together and suck its thumb	
organs of senses are nearly formed	
turning inside the mother	
now a fetus that is 5 ½ inches long	
eyes are closed, but the fetus can see	
the is the fetus' link to its mother, the source of its life.	

All of its important features have been developed, but it will take another \_\_\_\_ weeks before it can survive outside its mother.

## Related sites of interest:

- 1. Watch "The Miracle of Life" on-line at <a href="http://www.pbs.org/wgbh/nova/miracle/program.html">http://www.pbs.org/wgbh/nova/miracle/program.html</a>
- Windows on the Womb explore many of the currently available screening techniques that
  are changing the nature of pregnancy and parenthood.
   http://www.pbs.org/wgbh/nova/miracle/windows.html
- How is sex determinced? The following site illustrates the astonishing changes that occur
  during the first 16 weeks of development.
   http://www.pbs.org/wgbh/nova/miracle/determined.html

