



Tues, Feb 27, 2018

Pick up: Workbook Ch. 34 & WebQuest

Today you will:

1. Fetal Development Webquest

Homework/Planner:

Quiz on Reproductive Anatomy Friday!

Daily Science Question

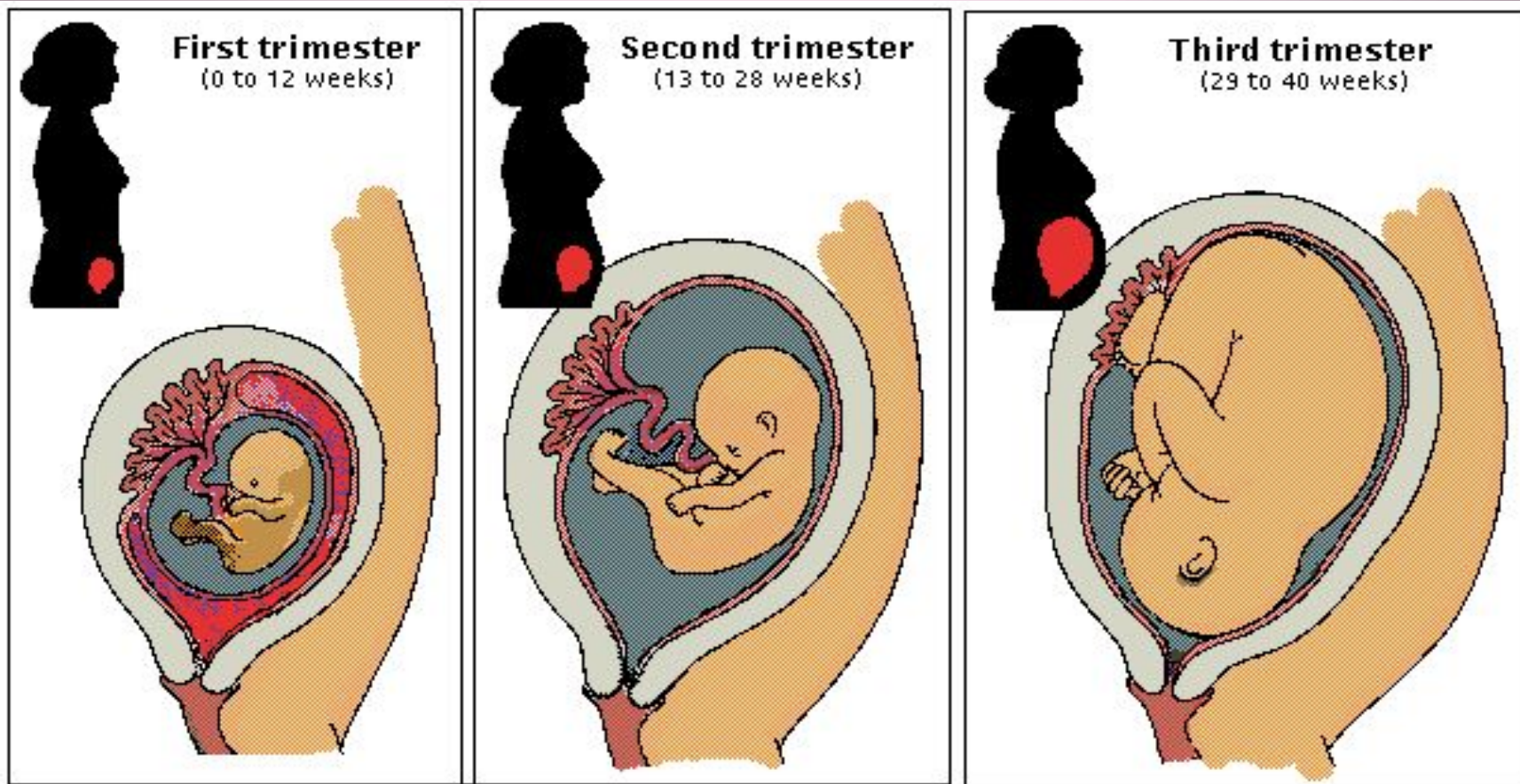
Which is the correct series of events?

- A. Gametes → Fertilization → Blastocyst → Gastrulation → Zygote → Fetus → Embryo → Baby
- B. Gametes → Fertilization → Zygote → Blastocyst → Gastrulation → Embryo → Fetus → Baby
- C. Gametes → Fertilization → Zygote → Gastrulation → Blastocyst → Embryo → Fetus → Baby
- D. Gametes → Fertilization → Zygote → Blastocyst → Gastrulation → Embryo → Baby

TriMesters

TB pg 800-801

3 distinct periods of *GROWTH & DEVELOPMENT*



1st TriMester

1. Dramatic changes
2. **Embryo → Blasto → Gastrulation**
3. **AMNIOTIC SAC**: sac in which fetus develop
4. **PLACENTA**: organ connecting fetus to the uterine wall- allow nutrient uptake, waste elimination, gas exchange via the mother's blood supply
5. **ALL ORGAN SYSTEMS HAVE BEGUN TO FORM:**
 1. Brain
 2. Heart – heartbeat after 5wks
 3. Kidneys

2nd TriMester

1. **SKELETON** begins to form
2. Soft hair (lanugo) develops over skin
3. **FIRST MOVEMENTS**
4. **Fetus wakes & sleeps**

3rd TriMester

1. **FETUS RESPONDS TO LIGHT, MUSIC**
2. **NERVES FORM IN LARGE NUMBERS**
3. **FAT DEPOSITS** under skin **DEVELOP**, so it can maintain body temp AND survive when born

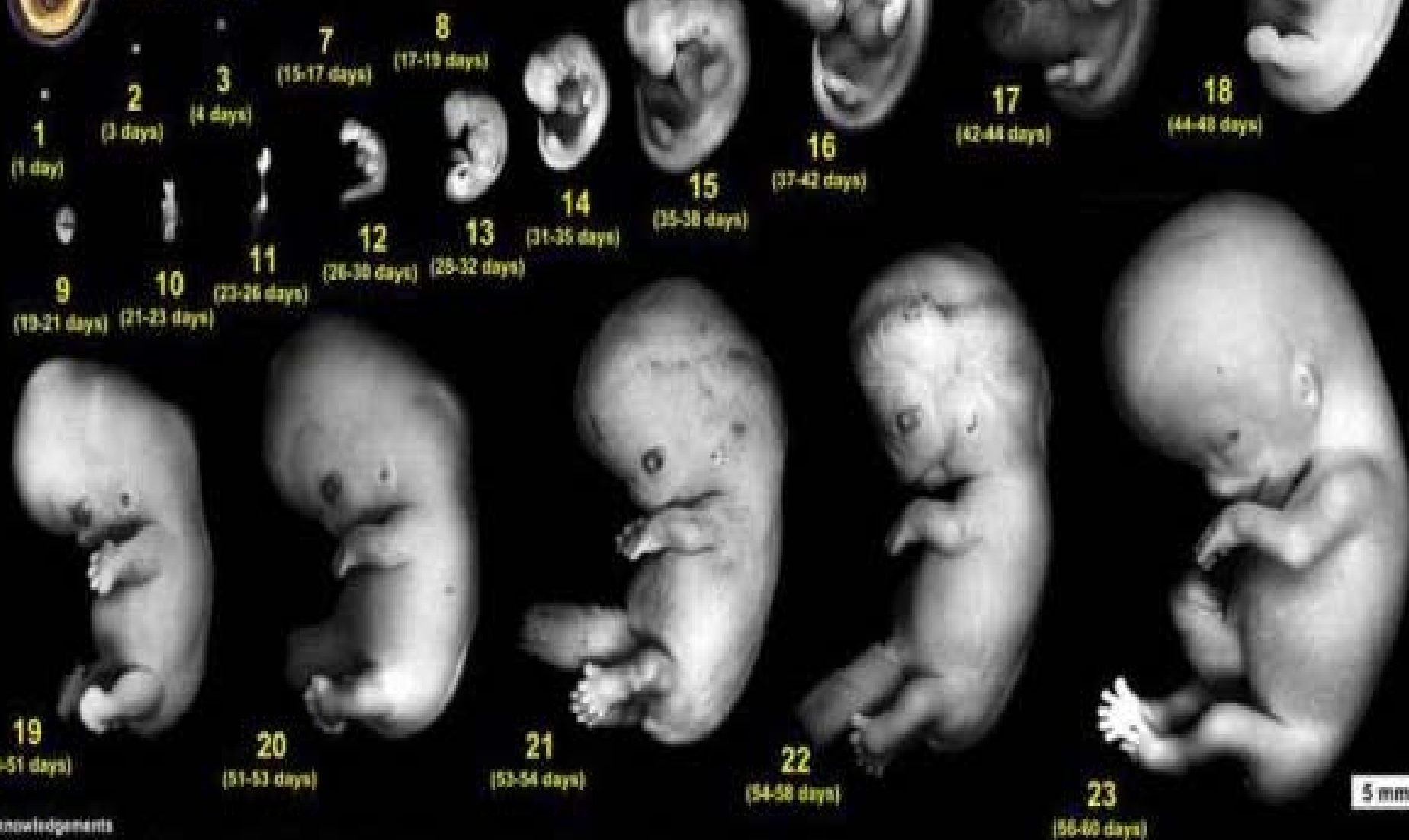
Carnegie Stages of Human Development

Dr Mark Hill, Cell Biology Lab, School of Medical Sciences (Anatomy), UNSW



Stage 1 Zygote

(1 day, not to scale)



1
(1 day)

2
(3 days)

3
(4 days)

7
(15-17 days)

8
(17-19 days)

16
(37-42 days)

17
(42-44 days)

18
(44-48 days)

9
(19-21 days)

10
(21-23 days)

11
(23-26 days)

12
(26-30 days)

13
(28-32 days)

14
(31-35 days)

15
(35-38 days)

19
(48-51 days)

20
(51-53 days)

21
(53-54 days)

22
(54-58 days)

23
(56-60 days)

5 mm

Acknowledgements

Special thanks to Dr. S. J. DiMarco and Prof. Robert Srinivas for allowing reproduction of their research

- <https://www.youtube.com/watch?v=jk0F-TnKFwU>

- https://www.youtube.com/watch?v=h82ltr84_Yg