Name
TA

Science 9

Learning Guide # 3: Sexual Reproduction and Meiosis

BIG IDEA: Cells Come from Cells

Fundamental Knowledge (I know)

- ☐ The process (Step by Step) AND products of Meiosis
- ☐ That all living things contain DNA
- ☐ The different methods of sexual reproduction
- ☐ Examples of organisms that utilize sexual reproduction

Curricular Competencies (I can)

	Proficiency Scale Teacher and Student self assessment (Circle one)	**Evidence (How do you know?)**
I can: **Make observations aimed at identifying their own questions, including increasingly complex ones, about the natural world.** (Q.P. 2.)	**Emerging (EMG)** Initial Understanding **Developing (DEV)** Partial/Near Complete Understanding **Proficient (PRF)** Complete Understanding **Extending (EXT)** Sophisticated Understanding	.
Transfer and apply learning to new situations. (A.I. 2.)	**Emerging (EMG)** Initial Understanding **Developing (DEV)** Partial/Near Complete Understanding **Proficient (PRF)** Complete Understanding **Extending (EXT)** Sophisticated Understanding	
Express and reflect on a variety of experiences, perspectives, and worldviews through place. (C. 3.)	**Emerging (EMG)** Initial Understanding **Developing (DEV)** Partial/Near Complete Understanding **Proficient (PRF)** Complete Understanding **Extending (EXT)** Sophisticated Understanding	

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Instructions To help guide your learning, make your way through the activities in Option 1, Option 2, or Option 3. You may "mix and match" between the different Option columns.

TOPIC	OPTION 1	OPTION 2	OPTION 3
Meiosis	**A.** Watch the following videos on Meiosis and **make notes** on the process (steps) and products (what do you start with vs. end with?): 1. https://youtu.be/nMEyeKQClqI 2. https://youtu.be/VzDMG7ke69g 3. https://www.sumanasinc.com/webcontent/animations/content/meiosis.html **Answer the questions on p. 203 #1-15.**	**A.** Read p. 188-197 and **make notes** on the process (steps) and products (what do you start with vs. end with?) **Answer the questions on p. 203 #1-15.**	**Choose your own adventure!** Pick up a planning sheet from the Science Kiosk. Create a plan! Make sure you read through the first page of this LG, as you will need to design ways to learn/practice and show your understanding of the topic(s) and skill(s) (competencies.) You will need to have a teacher approve your plan before beginning the LG.
Sexual Reproduction	**B.** Watch the following videos: 1. https://youtu.be/tFZeyFbBLXE 2. https://www.youtube.com/watch?v=fcGDUcGjcyk **Answer questions 1-9, 14 on page 223**	**B.** Read pages 204-215 and 220 of the BC Science 9 textbook. **Answer questions 1-9, 14 on page 223**	
Comparing Asexual and Sexual Reproduction	**C.** Make a table or Venn diagram comparing sexual and asexual reproduction. Include how they are similar and how they are different.	**C.** Create your own organisms! One of your organisms should reproduce asexually and one should reproduce sexually. You should also come up with a specific environment for your organisms. What do your organisms eat? What is its preferred environment and when can it reproduce? How does it reproduce?	
Flower Dissection	**D.** Watch the following videos and complete the **Flower Dissection Worksheet**: https://www.youtube.com/watch?v=2ycl2E9r-_o https://www.youtube.com/watch?v=493WeySyf-8	**D**. Read pages 212-214 of the BC Science 9 Textbook and watch the following video, then complete the **Flower Dissection Worksheet**: https://www.youtube.com/watch?v=djPVgip_bdU	
Self Assessment	Reflect on the Fundamental Knowledge and Curricular Competencies. Use the rubric and make goals to improve for your next learning guide.		
Interview or Quiz	See you teacher for an interview or to have a quiz slip signed for the test center. Bring your work and staple it to your quiz when complete.		

Resources can be found at www.THSSscience.com or the Science Kiosk
*User: **THSS***
*Password: **science***