N.T.	n · 1
Name	Period:

Integrated Science Study Guide (7th) (Weeks 1 & 2)

I'm obsessed with insects, particularly insect flight. I think the evolution of insect flight is perhaps one of the most important events in the history of life. Without insects, there'd be no flowering plants. Without flowering plants, there would be no clever, fruit-eating primates giving TED Talks.

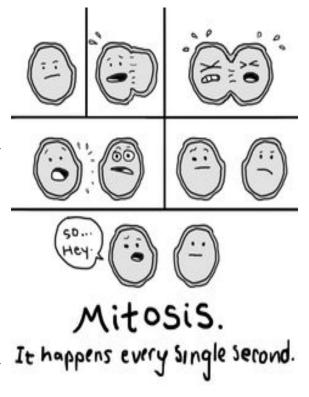
---Michael Dickinson

The fate of nations is intimately bound up with their powers of reproduction. All nations and all empires first felt decadence gnawing at them when their birth rate fell off.

---Benito Mussolini



Reproduction passes information from parent to offspring. Asexual reproduction requires one parent and produces nearly identical offspring. Sexual reproduction requires two parents, and provides variety in a species. This variety may allow the species to adapt to changes in the environment and help the species survive. A species may change due to the passing of traits naturally or by techniques used and developed by science. Genetic information is passes on in a predictable manner.



Essential questions:

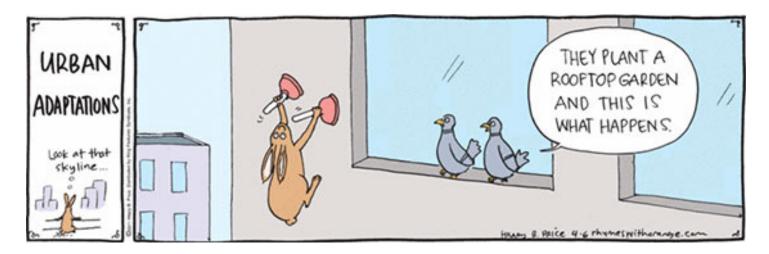
- o How is the prediction of traits in offspring relevant to you, your family, your species?
- o How is an organism's structural features related to its function?

Week 1: Due March 31

 1. Read the overview and quotes with the class and <u>mark them up</u> .
 2. Make vocabulary cards or fill out vocabulary sheets for the following words: acquired trait, inherited trait, asexual reproduction, sexual reproduction, genetics, gene, allele, mitosis, meiosis, homozygous, heterozygous, binary fission, (asexual) budding.
 3. Participate in and take notes on the lesson: Levels of Organization
4. Review Organs and Organ Systems; complete the Organ Systems Graphic Organizer

Name_	Period:	Cycle 4 March 27 – May 19
	5. Watch the following video clip on sexual and asexual reprod	duction: http://goo.gl/pzrf3s
	6. Complete the worksheet that goes the above clip on asexua vs. Sexual Reproduction worksheet.	l v. sexual reproduction: Asexual
	7. Participate in and take notes on the lesson: Cellular Reprodu	uction: Mitosis.
	8. Complete the Graphic Organizer: Phases of Mitosis	
	9. Complete the lab activity: Observing Mitosis Lab (Onion Roc	ot Tips)
Week	2: Due April 14 10. Participate in and take notes on the lesson: Gregor Mend Square.	el, Inheritance, and the Punnett
	11. Read and take notes on pp. 110-115 of the Prentice Hall Life	<u>fe Science</u> textbook.
	12. Complete the Assessment questions 1-2 on p. 115 of the P	rentice Hall Life Science textbook.
	13. Participate in and take notes on the lesson: Some Human [Dominant and Recessive Traits
	114. Complete the Family Album worksheet.	
	15. Participate in and complete the Activity: Take a Class Surve	ey.

Integrated Science Study Guide (7th) (Weeks 3, 4, & 5)



Overview

Reproduction passes information from parent to offspring. Asexual reproduction requires one parent and produces nearly identical offspring. Sexual reproduction requires two parents, and provides variety in a species. This variety may allow the species to adapt to changes in the environment and help the species survive. A species may change due to the passing of traits naturally or by techniques used and developed by science. Genetic information is passes on in a predictable manner.

Essential questions:

- o How is the prediction of traits in offspring relevant to you, your family, your species?
- How is an organism's structural features related to its function?

Week 3: Due April 21

 12. Participate in and take notes on the lesson: Inherited vs. Acquired Traits.
 13. Complete the worksheet: Bikini Bottom Genetics.
 3. Personal Project : Begin creating a family pedigree chart for a recessive gene through 3 generations of your own family (see worksheet) [Due April 15!].

Week 4: SAGE

Name	Period:	Cycle 4 March 27 – May 19
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Week 5: Due May 5	<u> </u>	
16. Partic	ipate in and take notes on the lesson: Tra	its, Adaptation, and Selective Breeding.
17. Partic	ipate in the in-class activity: Battle of the	Beaks.
18. Comp	lete the activity worksheet: Battle of the	Beaks.

Name	Period:
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Integrated Science Study Guide (7th) (Weeks 6 & 7)

Overview

Reproduction passes information from parent to offspring. Asexual reproduction requires one parent and produces nearly identical offspring. Sexual reproduction requires two parents, and provides variety in a species. This variety may allow the species to adapt to changes in the environment and help the species survive. A species may change due to the passing of traits naturally or by techniques used and developed by science. Genetic information is passes on in a predictable manner.

Essential questions:

- How is the prediction of traits in offspring relevant to you, your family, your species?
- How is an organism's structural features related to its function?



When the monster came, Lola, like the peppered moth and the arctic hare, remained motionless and undetected. Harold, of course, was immediately devoured.

Week 6 & 7: Due April 22

12. In Class, watch the c Dogs Decoded.	locumentary film:	motionless and undetected. Harold, of course, was immediately devoured.
13. Complete the hando	out and questions from the	film: Dogs Decoded
19. Participate in the in-	-class activity: The Mating (Game
20. Complete the activit	ty worksheet: The Mating G	Game
· · ·	•	On the outside of the foldable, draw a inside, write how that adaptation helps specific

Week 8: Due April 29

 22. Review for and take the unit test.
23. Take the SAGE test!

Name	Period:	Cycle 4 March 27 – May 19	
	24. Watch the in-class documentary film: The Botany of D	esire (Apples)	
	25. Complete the reading guide and questions on: The Bo	tany of Desire (Apples)	