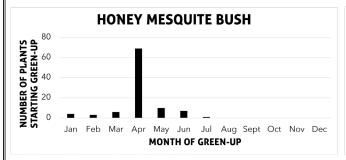
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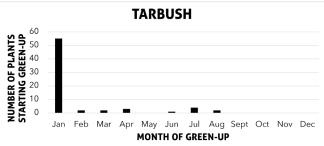


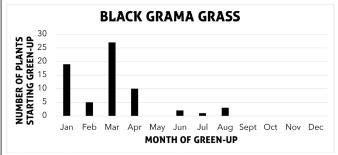
PHENOLOGY:

The study of seasonal patterns in plants and animals and their timing.

1. These graphs show how many plants greened up each month during the study. Briefly describe the phenology of each plant below.









Honey Mesquite Bush:

Tarbush:

Black Grama Grass:

Ear Muhly Grass:

2. What is the difference between the phenology of the bushes (honey mesquite bush and tarbush) and the grasses (black grama grass and ear muhly grass)?

3. Based on the diagram of plant roots, and the game you played, explain how plant roots affect phenol	ogy.
4. If climate change leads to more drought and less frequent rainfall in the southwest, which plants will be affected?	e most
Read the scenarios below and apply what you know about phenology, climate change and desert pla predict how each person will be affected by climate change.	nts to
a. Freddy is a rancher whose cows graze on desert grasses. If there isn't enough grass, Freddy must brin hay or supplemental food to ensure his cows stay healthy. Based on what you know about the phenol grasses, how will Freddy be impacted by climate change? How can Freddy adapt to climate change of the problem it is causing?	logy of
b. Mariana walks to school every day. Next to the school is a large area with no buildings. On windy days of dust is picked up off the ground from this area and gets in her eyes, mouth, and hair. Mariana has rethat when grass is growing, there is less bare ground and the grass seems to hold onto the soil. Based what you know about phenology, how will Mariana's walk to school be impacted by climate change? can Mariana adapt to climate change or solve the problem it is causing?	noticed d on