



Groundwater: 6th Grade Cliffs Notes



COLLEGE OF AGRICULTURE
AND LIFE SCIENCES
COOPERATIVE EXTENSION



Min.	ELEMENT:	Big Ideas:	What you ask (and reminders):
5	Q & A: Intro/Assessment		Introduce yourself and read pre-assessment sentences to students while they fill it out. 1
5	EXPLORE: Earth Materials Tubes	<ul style="list-style-type: none"> Groundwater is in the pore spaces between sand grains, gravel and other soil particles. Water flows because gravity works below ground just like it works above ground. 	Can water move through earth materials? Which material, sand or gravel, do you think water will move through faster if we pour water through the top of the tube? What causes the water to move through sand and gravel? How is the water moving through the gravel and sand? Why does the water move faster in the gravel than the sand? 2
3	ENGAGE: Underground Picture	Well logs throughout an area can tell us what it looks like deep underground. 3	How do we find out what it looks like under the ground?
3	EXPLORE: Groundwater Flow Model	A model is a representation of something. 4	What is a model? <i>Globe is a mode of the Earth</i> Model represents 200 ft down and miles and miles across Tucson What do you see in this model? <i>They should see 2 units, Gravel & Sand</i>
26	ENGAGE: Groundwater Flow Model	<ul style="list-style-type: none"> Groundwater is in the pore spaces between sand grains, gravel and other soil particles. Water flows, because gravity works below ground just like it works above ground. Groundwater is a part of the water cycle. Ground water and surface water are connected. We use groundwater in our homes! 	There are 4 parts to this: <u>Groundwater</u> Where is the groundwater? <i>Pore Spaces Mark the Water Table.</i> Introduce <i>saturated, unsaturated</i> <u>Gravity Moves Groundwater</u> What is happening to the dye? <u>Groundwater & Surface Water are Connected</u> Where does water come out? <i>Show where water table crosses land surface. Refer to water at the outlet as a river.</i> Explain subsidence Can water do the opposite and move from the surface water to the ground water? <i>Groundwater & surface water are connected</i> Is groundwater a part of the water cycle? <u>We Use Groundwater</u> Why do we care about groundwater? How do we get the water out of the ground? What is other main source of drinking water in Tucson? <i>CAP, recharge</i> 5

8	EXPLANATION: Wrap-Up		Review Big Ideas and go over post-assessment
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