

NAME: _____

Aligned to the following standards:

NRS.02; FFA.PL-A; FFA.PG-J; AG-NR2; AGPE01.03; CS.06; CCSS.RI.9-10.3;
CCSS.RST.9.10.1; CCSS.RST.9.10.2; CCSS.RST.9.10.5; CCSS.RST.9.10.8;
CCSS.WHST.9.10.4; CCSS.WHST.9.10.7; CCSS.WHST.9.10.8; CCSS.WHST.9.10.9; MP3;
MP6; AFNR Career Cluster, Statement 7; CRP.02; CRP.05; CRP.07; CRP.08

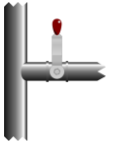
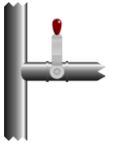
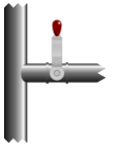
Smart Irrigation

DIRECTIONS:

Read over and answer the questions below while you watch the video "Turfgrass Management-Irrigation SAE | Tyler Hewitt," available at <https://vimeo.com/368438143>.

Describe Tyler's SAE.

List the tasks Tyler does at work on a typical day.



What did Tyler do to become a certified irrigation expert?



What is Tyler's claim to fame? (Hint: It's related to his certification.)

How does his SAE help his community?



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Water Conservation Through Technology

DIRECTIONS:

Through Tyler Hewitt's work in his SAE, he has learned that water conservation and technology are closely linked. Answer the questions below by researching water conservation and technology. Then, create an infographic that shows how technology can assist with water conservation efforts. Create your infographic using paper and colored pencils or pens. If your teacher approves, you can also use digital resources to create your infographic.

Suggested Resources:

Water Conservation: <https://www.epa.gov/environmental-topics/water-topics>

Water Availability: <https://www.ars.usda.gov/natural-resources-and-sustainable-agricultural-systems/water-availability-and-watershed-management/>

Water Conservation: <https://www.nal.usda.gov/waic/water-conservation>

Water Scarcity: <http://www.fao.org/3/a-i6459e.pdf>

Find four facts about the importance of water conservation.



Research water scarcity and agriculture, and list three things you learned.



Describe three technologies that could help with water conservation.

Technology 1

Technology 2

Technology 3

What are steps you can take each day to practice water conservation?

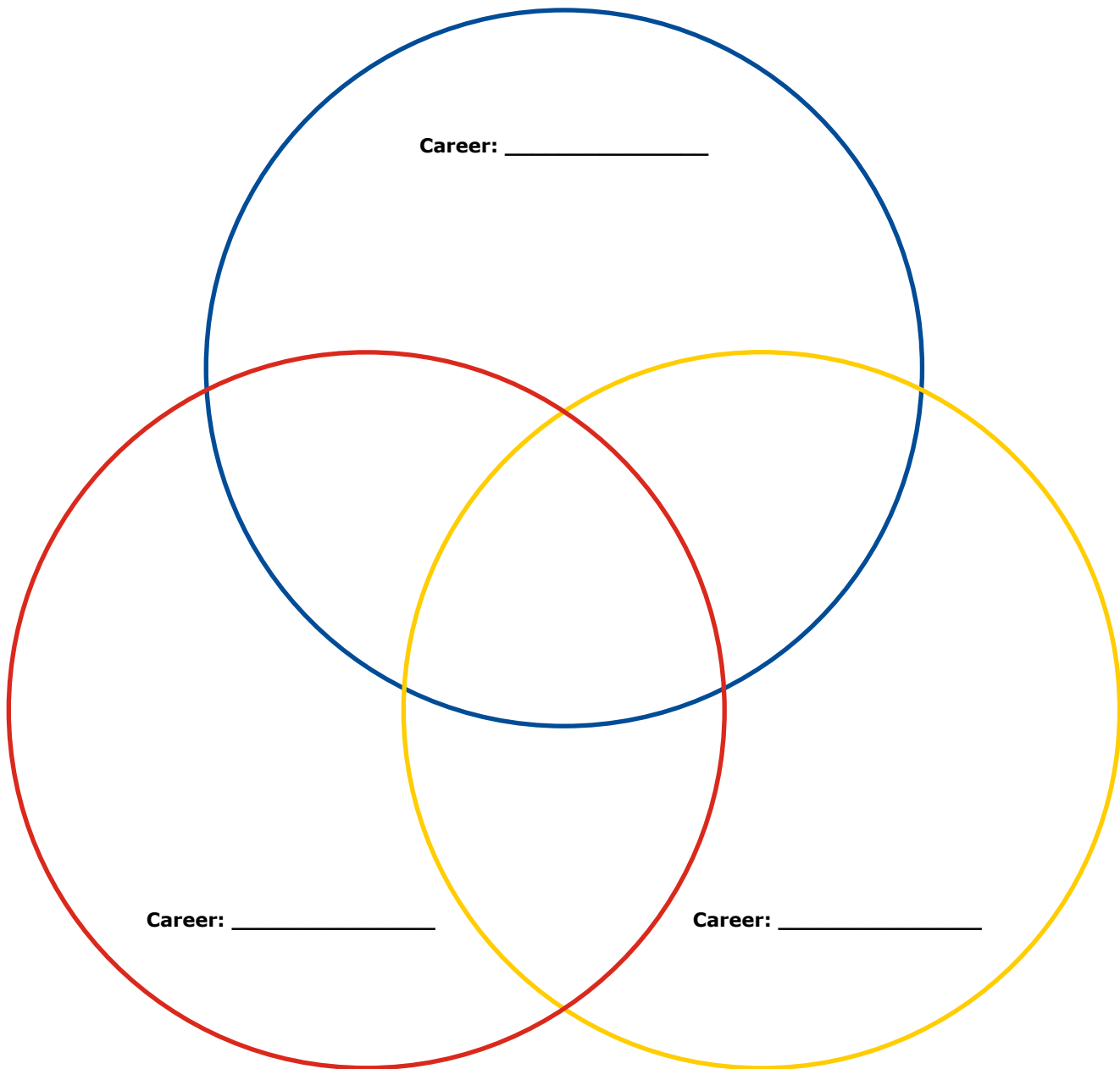
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Irrigation-Related Careers

1. Using AgExplorer.ffa.org, research three careers that require knowledge of irrigation systems. Compare and contrast the job responsibilities of the three careers in this Venn diagram.



2. Summarize what you learned about the similarities and differences between job responsibilities in careers that require knowledge of irrigation systems.

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Infographic Rubric

	25–21 Points	20–16 Points	15–11 Points	10–6 Points	5–0 Points
Design Layout Color Scheme Fonts	Layout is organized and uses consistent style. Color scheme has visual appeal and works with content. Fonts are legible and consistent.	Generally good layout Has minor inconsistency or one distracting element Color scheme clashes	Layout could use improvement Two or more inconsistent elements Hard to read fonts Layout distracts from content	Layout is disorganized, no obvious organization Layout distracts from content Color scheme is confusing.	No layout or scheme—just random elements, colors and fonts
Content Terms, Facts Quantity of data Quality of data	Appropriate terms, vocab, jargon defined and used More than enough data to make claims Data clearly demonstrate trend, claim, etc. Data from good source	One or two terms or jargon used incorrectly or without explanation. Adequate amount of data Data demonstrate trend, claim, etc. Data from good source	Not enough terms, vocab, jargon Data is sparse. Data might not demonstrate the trend or claim. Data from good source	Lacking in appropriate terminology Not enough facts or data Data is from poor or questionable source.	No real data or facts are present.
Clarity Makes a claim Efficiency Makes clear impression	Claim or main idea is obvious and easy to understand. No unnecessary graphics or visuals Infographic makes a good initial impression.	Claim or main idea is understandable. No unnecessary graphics or visuals	Claim or main idea is made. Some graphics or visuals are unneeded.	Infographic makes a poor initial impression. Confusing	Claim or main idea is missing.
Representation Design complements content Careful choice of visuals Data visualization matches content and claim	Design elements are clearly informed by content. Visuals show connection to content and create a visual flow. Visualizations fit the data and the claim.	Design elements are clearly informed by content. Visualizations fit the data and the claim.	Visualizations fit the data and the claim.	Design and visuals are at odds with the content or claims being made.	Design elements and visuals convey a meaning contrary to the intent.

Modified from “General Infographic” created by Jim White and available at <http://science-infographics.org/general-infographic-rubric/>.