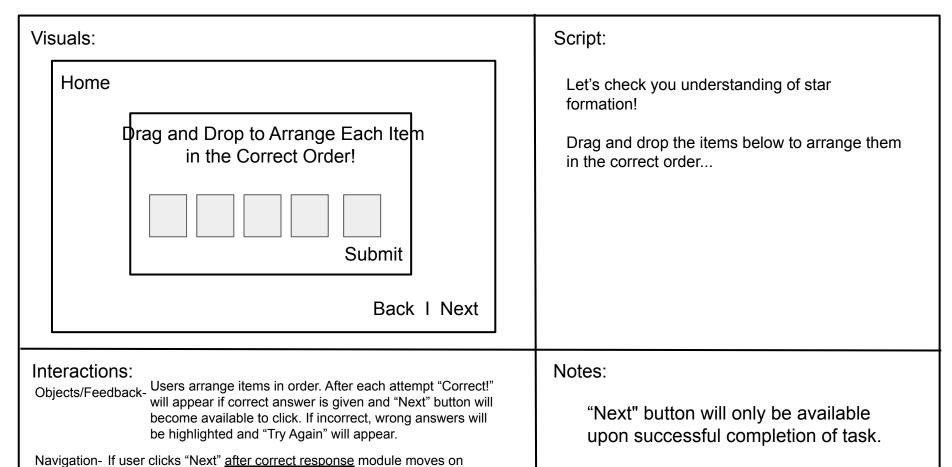


Visuals:	Script/Audio:
Home Learning Objectives By the end of this module you will be able to 1. Identify the three main criterion for star formation. 2. Explain the concepts of mass and solar mass. 3. Compare and contrast neutron stars, and black holes. 4. Predict the "life cycle" of a star given its mass. Back I Next	Before we begin, let's take a look at where we're going!
Interactions: Objects/Feedback- None Navigation- If user clicks "Next," module moves on to Slide 3 If user clicks "Back," module returns to previous slide User clicks "Home," module stays on Home Page.	Notes:

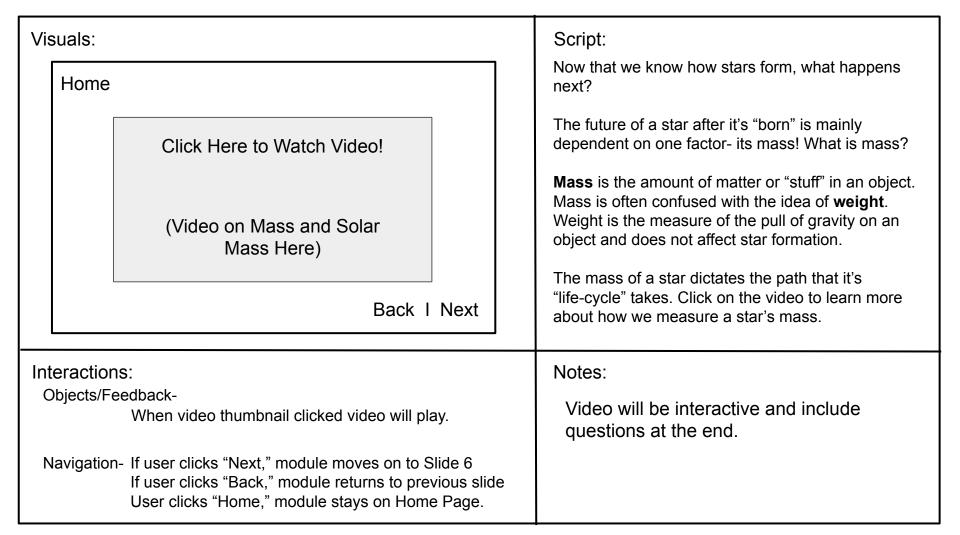
Visuals:			Script:
Home	Click Here for Animation	ck I Next	What exactly is a star? A star is a giant mass of gas and dust that's held together by its own gravity and produces energy from inside it's core. While stars are not actually "alive," it can be helpful to think of them as having a life-cycle like living creatures. This helps us organize how they change over time! So, how exactly, is a star "born"? Click the animation on the screen to watch a star form!
Interactions: Objects/Feedback- If user clicks on picture, animation begins Navigation- If user clicks "Next," module moves on to Slide 4 If user clicks "Back," module returns to previous slide User clicks "Home," module stays on Home Page.			Notes:



to Slide 5.

If user clicks "Back," module returns to previous slide.

User clicks "Home," module stays on Home Page.



Visu	als:			Script:
F	Home			There are three main categories of star life-cycle.
	Star Category	Solar Mass		1. Very-low mass star: Solar mass < 0.5
	Very-low mass	< 0.5		2. Low mass star: Solar mass of 0.5-5
	Low mass	0.5-5		
	High mass	> 5	Click on each example!	Click on each star category to see an example!
	Back I Next			
	nteractions: Objects/Feedback- info box pops up with an example for that category.		Notes:	
Nav	Navigation- If user clicks "Next," module moves on to Slide 7 If user clicks "Back," module returns to previous slide User clicks "Home," module stays on Home Page.			

isuals:	Script:
Very-low mass stars do not perform nuclear fission as quickly as low mass or high mass star. Because of this they last a LONG time. Like almost as old as the universe itself kind of old! That's around 13.7 BILLION years old. Low mass stars called "red dwarfs" are the most common stars in the universe, but can't be seen with a normal telescope due to their dim glow. Interestingly, red dwarfs often have their own planets orbiting them. Because of the typical red dwarfs size, life-span, and the amount of light and heat they radiate, scientists have categorized the planets that orbit them as one of the universe's most likely places to find life! Red dwarfs consist primarily of hydrogen gas that is slowly converted to helium through nuclear fission. When their supply of hydrogen runs out and they no longer have any fuel, a red dwarf becomes a "dead" star called a white dwarf. Eventually the white dwarf will lose all of its heat and be classified as a "black dwarf."	Read the passage on this page to learn about the life of a very-low mass stars
nteractions:	Notes:
Objects/Feedback- None	
Navigation- If user clicks "Next," module moves on to Slide 8 If user clicks "Back," module returns to previous slide User clicks "Home," module stays on Home Page.	

Visuals:			Script:
Home	Click Here to Watch Video! (Video on Low Mass Stars Here) Back I Next		Our next category- low mass stars, are particularly interesting because it's the category that our star, the Sun, is in! So what is the fate of a star with a mass similar to our own? Click the thumbnail to watch a video about the life and death of a low mass star.
Interactions: Objects/Feedback- When video thumbnail clicked video will play.		Notes:	
Navigation- If user clicks "Next," module moves on to Slide 9 If user clicks "Back," module returns to previous slide User clicks "Home," module stays on Home Page.			

Visuals: Script: Home Test your knowledge of the module so far by answering the following questions... What characteristic describes the amount of matter in an object? density a. b. mass volume d. weight Back I Next Interactions: Notes: Users answer MC questions. After each attempt Objects/Feedback- "Correct!" will appear if correct answer is given and "Next" button will become available to click. If "Next" button will only be available incorrect, correct answer will be highlighted with upon successful completion of task. an explanation of each wrong answer. Navigation- If user clicks "Next," module moves on to Slide 10 If user clicks "Back," module returns to previous slide

User clicks "Home," module stays on Home Page.

Visuals:

Home
Click on each picture in the diagram to learn more!

*Sample Diagram Shape

Back I Next

Script:

Great job! Only one more category left and this one is even more mind-blowing than the last. Let's talk about high mass stars!

High mass stars die in one of two ways. Once again, their fate depends on their mass. Click on each section of the diagram to learn more!

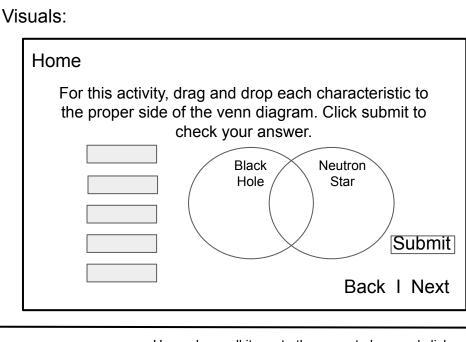
Interactions:

Objects/FeedbackWhen users click on each thumbnail information about each subcategory will appear. When all object have been clicked the "Next" option will appear.

Navigation- If user clicks "Next," module moves on to Slide 11 If user clicks "Back," module returns to previous slide User clicks "Home," module stays on Home Page.

Notes:

"Next" button will only be available when all categories have been clicked.



Script:

For this activity, drag and drop each characteristic to the proper side of the venn diagram. Click submit to check your answer.

Interactions:
Objects/FeedbackUsers drags all items to the correct place and clicks submit. After each attempt "Correct!" will appear if correct answer is given and "Next" button will become available to click. If incorrect, wrong answers will be highlighted and "Try Again" will appear.

Navigation- If user clicks "Next," module moves on to Slide 12
If user clicks "Back," module returns to previous slide
User clicks "Home," module stays on Home Page.

Notes:

"Next" button will only be available upon successful completion of task.

Visuals: Script: Home Wow! You've learned a lot about the star life and death of stars. Let's put Click Here to Play! your newfound knowledge to use by playing a game! Interactive Simulation/Game Click on the thumbnail to start the (Users will predict star life cycle based on game! a given mass) Back I Finish Interactions: Notes: When users click the game thumbnail they Objects/Feedback- will enter into the simulation. "Finish" button will only be available upon successful completion of task. If user clicks "Finish" after successfully completing the Navigation- game the module goes to end screen If user clicks "Back," module returns to previous slide User clicks "Home," module stays on Home Page.