

Name: _____

Grade	
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Exoplanets

Pre-Lab Quiz

Record you team's answer as well as your reasonings and explanations.

1.

2.

3.

4.

Part 1: Zooniverse: Planet Hunters TESS

1. In your own words, what does the TESS spacecraft study, and how?

2. In your own words, what questions is your group trying to answer in this part of the lab? Describe the work your lab group will do to try to answer these questions, and the process you will follow.

3. Classify 15 lightcurves on the Zooniverse (draw boxes on the screen if necessary (for transits or eclipsing binaries)), submit your classifications to the Zooniverse (click ‘Done’), and record your classifications below. If you encounter simulated data, it’s alright to count those toward your total of 15. Reference the archive if told to.

Include a screenshot of your marked up lightcurve here	Classification (list all that apply from the following possible answers: transit, no transit, binary star, stellar variability, glitches, unsure)

Part 2: Zooniverse: Planet Hunters

1. In your own words, what do bright spots in the images represent? What does the red dot represent? What does the red dashed contour represent?

2. Classify 9 images on Zooniverse: Planet Hunters; make sure to submit them by clicking 'Done'. Record your classifications below. Reference the archive if told to.

Include a screenshot of your image below	Classification (Yes bright spot with red dot inside/outside contour, Multiple bright spots, Poorly-defined spot, None of the above)

3. Browse through the other projects offered on the Zooniverse (click the Zooniverse logo at the top left of a Zooniverse webpage and then click ‘See All Projects’). You don’t have to restrict your browsing to Astronomy projects, though you can. What is the name of another project that looks interesting to you? In your own words, what are the goals of this project?