

Name \_\_\_\_\_

Date: / /

### Notes: Analyzing Starlight

What is the only thing we can study that we get from a star? \_\_\_\_\_

Properties of electromagnetic energy (\_\_\_\_\_):

1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

The relationship between temperature and wavelength \_\_\_\_\_

#### Star Characteristics Determined by Analyzing Their Energy

Temperature:

Composition:

Element \_\_\_\_\_

Element \_\_\_\_\_

Speed:

Spectrum as seen coming from a stationary galaxy

Spectrum as seen coming from a galaxy moving away from Earth

\_\_\_\_\_

Almost all galaxies show Red Shift so the size of the galaxy must be \_\_\_\_\_

About \_\_\_\_\_ years ago all matter was in one very small volume of space.

This unimaginably hot, dense region exploded in the \_\_\_\_\_ to create the known universe.