**A close up of a logo

Description automatically generated**

**The Webb Space Telescope Dave Eagle FRAS**

**Students Question Paper.**

Why do astronomers use telescopes? To \_\_\_\_\_\_\_\_\_\_\_\_ Light

Why is a bigger telescope better?  
  
It \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What differences does this make? Objects appear \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and will be

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_  
  
What is stopping us from seeing objects in the sky properly?  
  
 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the name of the most famous and successful space telescope? ­­­­­­­­­­­­­­­  
  
\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What new space telescope will replace Hubble?

\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What light can this new space telescope be able to detect? \_\_\_\_\_\_\_ - \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

How many panels make up the main mirror? \_\_\_\_\_\_\_\_\_\_\_

What shape is each mirror panel? \_\_\_\_\_\_\_\_\_\_\_\_\_

How big is each panel? ­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the total width of the main mirror? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

What metal is the mirror coated with? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What light does this metal reflect really well? \_\_\_\_\_\_\_ - \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

How big is Hubble’s Mirror? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
How many times more light can the new space telescope’s mirror collect? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

How many times more powerful is this new space telescope to Hubble? \_\_\_\_\_\_\_\_\_\_\_

How many kilometres does The Hubble Space Telescope orbit above Earth? \_\_\_\_\_\_\_\_\_\_\_\_\_

How many times higher than the ISS is this? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How many kilometres will this new telescope orbit from Earth?­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How many times more distant than The Moon will this be? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Why does the new space telescope need to be folded up before launch?   
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What does the sunshield do? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Why does the mirror and instruments need to be kept cold? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_