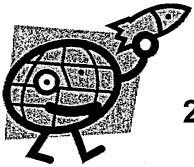


Benchmark Assessment

**BENCHMARK 2-EXPLAIN HOW SCALE AND MATHEMATICAL MODELS CAN BE USED TO SUPPORT AND EXPLAIN SCIENTIFIC DATA.**

1. In class we made a model of the sun that was one millionth the real size. Use a ruler and scissors to construct your own model of the Sun and Earth. The sun's diameter should measure 23 cm. Draw and label Earth on your Sun. Staple the sun to this paper.

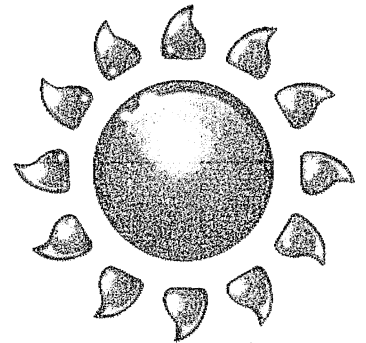


2. Why do we use this scale model to learn about the Sun and Earth?

**BENCHMARK 6- EXPLAIN THE RELATIONSHIP BETWEEN THE COLOR OF LIGHT AND WAVELENGTH WITHIN THE ELECTROMAGNETIC SPECTRUM.**

3. Put on your Holographic Diffraction Glasses. Use color pencils to draw and label the colors in the order that you see them

4. Where do you think the different colors come from?



5. Which color has the highest energy?



6. Which color has the lowest energy?