



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 10 COURSE NAME: Earth and Space
MEASUREMENT TOPIC: Explain Weather Patterns

4	In addition to Score 3, the student makes in-depth inferences and applications.
3	The student can: <ul style="list-style-type: none">• Explain factors that affect weather patterns.• Analyze and interpret data to create a surface map, including high-pressure and low-pressure systems, isobars, wind barbs, cloud types, precipitation, and fronts.
2	The student can: <ul style="list-style-type: none">• Construct an explanation of how air masses, source regions, fronts, weather changes associated with frontal passage• Obtain, evaluate, and communicate information about the role of energy transfer in wind, precipitation, cloud formation, and front formation.• Plan and carry out an investigation to determine the differential heating of land and water and explain how these differences create changes in local and global weather.• Obtain and communicate information to explain how water cycles through the atmosphere, including condensation, evaporation, clouds, types of precipitation, relative humidity, and dew point.

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With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Key Vocabulary: