

Weather Permitting

1. **DESCRIPTION**: This event will test the team's knowledge of conducting investigations and using appropriate technology to build an understanding of weather.
2. **ESSENTIAL STANDARDS ALIGNMENT**: 2.E.1, 5.E.1
3. **TEAM OF UP TO**: 2
4. **MAXIMUM TIME**: 60 min.
5. **TEAMS**: Must bring writing instruments. No other resources are allowed.
6. **EVENT LEADERS**: Will provide an event with all necessary items, objects, materials, questions, and response sheets for participants to complete exam.
7. **SAFETY REQUIREMENTS**: None
8. **IMPOUND**: No
9. **THE COMPETITION**: The competition will consist of an exam that covers any or all of the following topics.
 - a. Water cycle (processes of evaporation, condensation, precipitation, and run-off)
 - b. Weather instruments, including thermometer, barometer, rain gauge, hygrometer, sling psychrometer, wind vane, anemometer, weather balloon, radar, and satellite
 - c. Types of clouds and their relationships to weather conditions
 - d. Weather maps and how they can be used to identify weather conditions
 - e. Description of everyday weather during the seasons
 - f. Causes of everyday weather
 - g. Prevailing and local winds
 - h. The jet stream and its effect on local weather
 - i. The Gulf stream and its effect on local weather
10. **SCORING**: Points will be awarded for the accuracy of responses. Ties will be broken by the accuracy or quality of responses to pre-selected questions chosen by the event leader.
11. **EVENT RESOURCES**:
See the Event Resources tab on our website for instructions, videos and more.