***Holman Weather Monitoring***

***Garden Club***

Equipment

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|  | Thermometers as available in store |
|  | Rain gauges as available in store |
|  | Weather link and Weather forecaster models |
|  | Constructed and synced Professional Weather Station |
|  | Sample Solar weather station |
|  | Water samples for rain gauge activity |
|  | Display stand |
|  | Table cloth and Banners |

Pics

  

Script

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| Introduce the Holman company   * Australian Family owned * 140 employees * Irrigation, Plumbing, Lighting, Garden Décor * Export internationally through K-Rain   People monitor the weather for all sorts of reasons   * Knowing what to wear * Farming and gardening * Outdoor / water sports * Weather events – storms, floods, hail * Bush fires * Comfort zone… |
| Comfort Zone  Even though we live in all sorts of climates, from the frozen tundra to the tropics, our tolerance of temperature is actually quite narrow.  We manage this with clothing, or by heating and cooling our homes. We choose appropriate times for various activities.  We also have a narrow Humidity zone   * If the air is too dry our skin and airways start to suffer * If the air is too humid, our sweat doesn’t evaporate to cool us   So monitoring the weather is a big deal… |
| **Thermometers** |
| Aluminium thermometers   * -30°C to 50°C * Mercury free * Strong and reliable Aluminium base * Suitable for indoor or outdoor area (not in direct sunlight) * Large numbers make it easy to read * 1 year warranty. * Two sizes – 250mm or 380mm   Brass Thermometer with Hygrometer   * -30°C to 50°C (-30°F to 120°F) * Humidity 0% – 100% * large display making it easy to read * Attractive desk top unit * Suitable for both indoor and outdoor use * 1 year warranty   Have a volunteer read off the temperature from sample products |
| Rain Gauges  Wedge   * Measures rainfall in mm * Tapered base increases accuracy   Professional   * Measures rainfall in mm * Housing to protect inner cylinder * Funnel to increase accuracy    Digital   * Self-emptying collector can be mounted out of reach in clear air * Display unit sits indoors, and shows date, time, temperature and rainfall   Have a volunteer measure small amounts of water supplied, using sample rain gauges |
| Weather Link   * Outdoor sensor measures temperature and humidity * Indoor unit displays Day, Date, Time, Temperature and Humidity, indoors and out. * Easy to read backlight LCD screen * Attractive desktop unit |
| Weather Forecaster   * Outdoor sensor measures Temperature, Humidity and Pressure * **Unit uses Pressure history data to forecast weather** * Indoor unit displays Day, Date, Time, Temperature, Pressure, Humidity and forecast * Easy to read backlit LCD screen * Attractive desktop unit   Discuss how to predict weather  Rising pressure leads to clear, sunny conditions  Falling pressure leads to cloudy, rainy, stormy conditions  Rapidly falling pressure leads to major storms |
| Professional Weather Station  External Sensor measures   * Wind speed and direction * Rainfall * Temperature * Humidity * Air Pressure   Interior module displays   * Wind direction and speed. * Temperature indoors and out, with a comfort zone alarm * Humidity indoors and out, with 12 hour history * Rainfall * Barometric pressure * Forecasts based on pressure data * Moon phases * Day, Date and Time * Daily alarm for reminders   Indoor and External units will automatically sync if batteries connected within 3 mins  If time allows, construct a weather station while talking. Otherwise, display a unit previously constructed |
| Solar Weather Station  All the functions of the Professional weather station, plus   * UV index * Wind chill * Dew point * Because it is solar powered, you will never have to replace batteries in the external unit. |
| **Conclusion / Review** |