

Source: [KBPhysicsMasterIndex](#)

## 1 | Special Relativity

- If events are apart for observers to see, two observers have to record the time and compare notes
- It will take time (sound/light) from an event to get from the event to the observer; the travel time needs to be taken into account, and if the objects are moving, calculating time travel would be extremely tricky
- Human senses also have certainty

### 1.1 | Space and Time

- Because it is impossible to observe a result independent of a reference point, each observer would ideally want a clock of identical construction
- Laws of inertia (Newton's first law) is not true for every coordinate system
- The rotation of the Earth