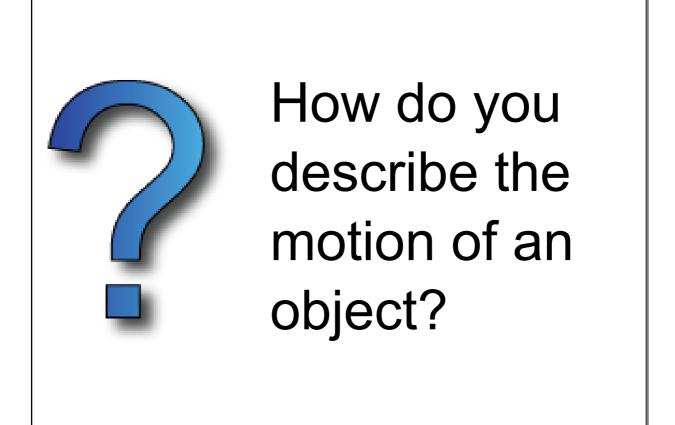


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Describing Motion
Lesson 1



When is an object in motion?

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- I. When is an object in motion
- A. Motion is when an object changes position relative to another object
 - ex. riding in a car

your position in the car changes compared to a street sign

- ex. sitting in a chair your position relative to the chair
- ex. hands on a clock

B. Reference Point

- * A reference point is a place or object used for comparison to determine if something is in motion
- * An object is in motion if it changes position relative to the reference point
- * Objects that are fixed relative to Earth are good reference points
 - ex. buildings, trees, signs
- *Moving reference points
 - ex. cars on the expressway runners on a race track

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C. Relative Motion

Your position relative to your chair = not moving

Your position on Earth relative to the sun

Earth moves 30km/sec

You are moving relative to the sun

But since you are moving with the Earth,

it doesn't seem like you are moving

D. Measuring distance

To describe motion completely, you use units of measure

- * SI Units- International System of Units
- * Unit for distance = meter
- * Scientists use other units to measure distance

centimeter 100cm = 1m

millimeter 1000 mm = 1m

Kilometer 1000m = 1km

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