

Intermediate DPA Tasks

Week 6

Activity

Option 1

Making a Sundial. Materials: paper plate, straw or pencil, rocks, pen or marker. You will need a spot outside that gets sunlight all day (i.e. not under a tree). It's best to do this experiment when it isn't windy outside. Start this experiment early in the day so you will be able to observe it throughout the day. Instructions: Carefully poke a hole in the centre of your plate. Put the straw or pencil through the hole. Go outside on or near an hour (e.g. close to exactly 10:00). Put your sundial on the ground. Use the rocks to hold the sundial in place. Angle the straw toward the shadow line on the plate. Use your pen or marker to write the time on the shadow line. Come back and check your sundial throughout the day on the house and mark the times down on the sundial. What do your observations of your sundial tell you about the Earth's rotation around the Sun?

Option 2

Play a game of the floor is lava. Can you create a path from one room to another using cushions, or other non-breakable items you can jump to? What is the fewest numbers of jumps you can make?

Option 3

Play a game of I spy but you only get 5 guesses (or a number of your choice). If you guess the correct item the other person has to do 5 push-ups, if you don't you do the push-ups.

Option 4

Pass any non-breakable item in a large arc over your head from one hand to the other as many times as you can without dropping the item. Name this game and virtually challenge your friends.

Option 5

How many of your daily activities can you complete without using your thumbs?