



1 HUMAN SUNDIAL

New technologies are often developed from nature.

3RD–5TH GRADE

Learn about new technologies that are used to make the farm more productive.

1. GET STARTED

What time is it right now?

To tell time, most of us check our phones or watches. Those are modern technologies. A technology is the use of knowledge to invent new devices or tools. Before the invention of these technologies, people also needed to tell time and developed different ways to mark the hours.

The rocks in front of us form a sundial. A sundial is the earliest type of timekeeping device. It dates back to 1500 BC when the Egyptians invented the first 'shadow clock'. A sundial uses a stick or rod (called a gnomon) which creates a shadow that falls on numbers representing the time of day. In a Human Sundial, your arm or body becomes that object!

Let's try it out!

- ▶ **Stand on the rock** for the month you are now in. Your shadow will point to the current hour.
- ▶ **Draw the current time** and the time it will be in 2 hours in your resource book.
- ▶ **Be sure to come back** at the end of your visit and check to see if your prediction was correct!

2. DIVE IN

During our visit to the farm, we will learn about the important role of the sun in the growth and health of the plants.

▶ We know we can tell time with the sun. How else does the sun help?

Plants use the sun during photosynthesis to grow; compost piles use the sun's heat to break down material; pollinators prefer warm weather.

Solar panels are a new technology that uses the sun to create energy; greenhouses regulate their temperature with the help of the sun.

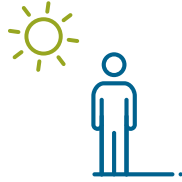
Remember that technology is **the use of knowledge to invent new devices or tools**. As we walk around the farm today, let's look for different examples of technology that help the farm.

3. LEARN MORE

To learn about how other technologies have changed over time, view the FoodPrints [Changes Over Time](#) lesson. Students can try out different methods of grinding flour and compare the taste of [Homemade Butter](#) with one you buy from the store.

FIELD TRIP MAP

parking lot



1 HUMAN SUNDIAL

picnic tables



2 GREENHOUSES



3 RAISED BEDS



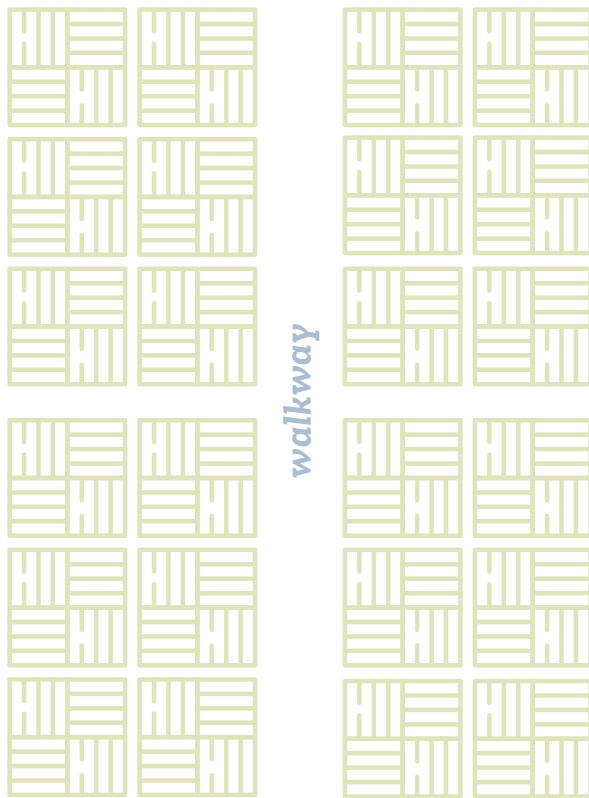
4 "APIARY" BEE HIVES



5 THREE TIER COMPOST SYSTEM



6 BLUEBIRD TRAIL STARTING POINT



7 BEE HOTEL



10 EDIBLE FLOWERS



9 SENSORY FOOTPATH



8 POLLINATOR HABITAT