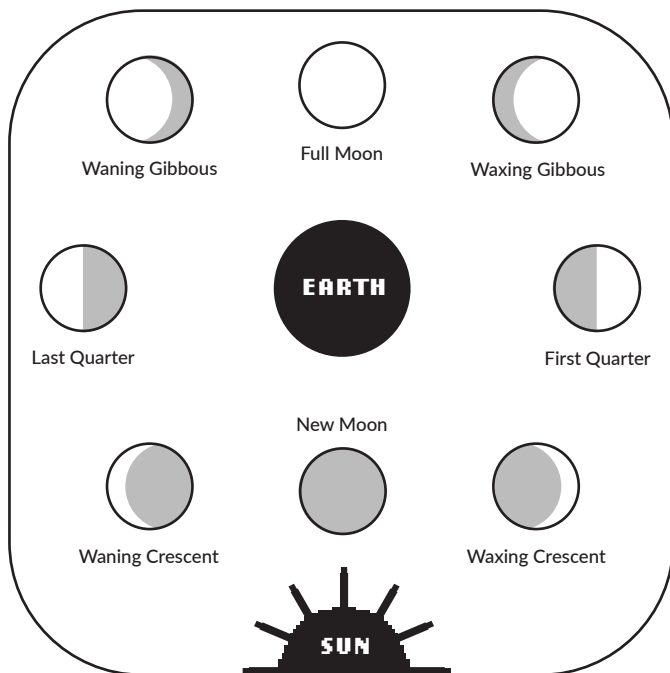


PHASES OF THE MOON – LEVEL 2

INSTRUCTIONS AND SOLUTION

OBJECTIVE: Students will be able to name 8 phases of the Moon and identify them from a model.

INSTRUCTIONS: Place the flashlight facing the Earth. Use the Ozobot Blockly program found with share code **y73izj** or visit <https://ozo.bot/b/y73izj>. Pair the bot using the bot icon. This program will tell the bot to travel on the black line and stop at the blue marks on the line. When the bot stops, have students observe the Moon from the perspective of Earth. Ask them to notice the lighted part of the Moon, and draw what they see. When a student is finished drawing, they will place their hand behind the bot to make it move forward to the next blue mark. Notice the name of each phase is included on the student sheet. If you want to assess your students' knowledge of the phases, use Level 3 which doesn't include the name of each phase.



MATERIALS NEEDED:

- Ozobot
- Sun, Earth, & Moon Model
- Phases of the Moon Level 2 Activity Sheet

TEACHER TIPS:

Students can work in groups of 2–4. Each student needs their own Activity Sheet.

This activity is intended to reinforce concepts already taught.



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INSTRUCTIONS:

The Moon looks different to us depending on its location in space. It travels around Earth one time in about one month. View the model as if you are standing on Earth. Then, draw the lighted and unlighted parts of the Moon that you observe.

1. In Ozobot Blockly, open the Phases of the Moon Level 2 program using share code **y73izj** or visit <https://ozo.bot/b/y73izj>
Pair your Ozobot.

2. Position the Moon on the board facing counterclockwise.
3. When the bot stops observe what portion of the Moon is lit by the Sun. Draw the lighted and unlighted parts of the Moon.
4. When your drawing is finished, place your hand behind the bot to tell it to go to the next stop. Repeat step 3 until you have all eight Moon phases completed.