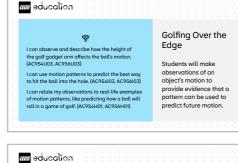
Facilitation Notes

Engage © 5 min.

Ask students what they know about golf. Introduce the story of a mini-golf course opening a new hole with a gadget that can putt the ball.



You can introduce the students to the objective and

1 Introduction

0 | Goals and Objectives

learning targets of this lesson.

Ask students what they know about golf.

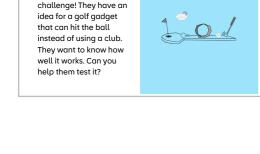


What equipment do players use? (Sticks called clubs

to hit the ball.)

- What are two main ways that they hit the ball? (A putt is when you hit the ball lightly to knock it into the hole.
- Players also hit the ball hard to try to make the ball go as far as possible.) You can differentiate between putts and hard hits. 2 | Context

You can use questions to check students' understanding



The mini-golf course

wants to add a new

as needed.

What do you know about mini-golf courses? What kind of golf hits do people make there? (Putts or small hits to try to get the ball into a hole.)

about mini-golf courses. Build their background knowledge

- How are the holes at a mini-golf course different from
- each other? (Often each hole has a theme, like a water
- feature or bridge. Sometimes there are obstacles to get through or fun features to interact with on the way to the hole.)

hitting the ball from different heights.

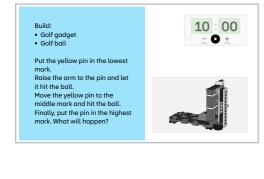
Explore (10 min.

3 | Groups and Roles Divide the students into groups of 4. Use the blue, red,

few times.

arm from the first height.

In groups of 4, students will build the golf gadget and a ball. They will explore



red, green and yellow LEGO minifigure icons in the building

instructions. 4 | Build and Explore Emphasise that students are testing the gadget to see how it works to hit the ball from each height. They need not try to putt the ball into a hole. If students are ready, they can use these steps to identify

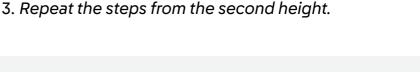
heights. They should try hitting the ball from each height a

1. Measure how far the ball goes each time you raise the

patterns in the ball's motion as it is hit from different

2. Record this data on paper or in a notebook.

green and yellow LEGO® minifigures to assign student roles and help each student find which part of the collaborative model they will build. They can find the corresponding blue,



- Building Instruction for use during Explore



when the golf gadget hit

How far did the ball go

each time it was hit it from the middle and

highest mark? Do you notice any

patterns[®]?

 Students notice the pattern that the ball goes further when hit by the arm from a higher height. Recognising these motion patterns will help students

Elaborate (15 min. Students will build a hole for the ball and use their observations to predict the motion needed to putt the ball into the hole. Afterwards, they will share their solutions and relate this experience to real-life examples of predictable motion.

5 | Share

the following:

same height.

predict future motion.

they did in the lower years.

6 | Build You can prompt students to close their box and place the gadget on top at one end. They can then build their hole container and place it on the table right next to the

edge of the box at the other end. Students should try to

Ask your students to explain their results and how they

To check student understanding, you can look for the

used knowledge from the first test to find the right height.

Students can explain how they used observations from

collected from the first tests informed their exploration

to predict how hard the right hit will be.

raise the arm of the gadget so it hits the ball hard enough for it to drop easily into the hole without flying over the hole. Introduce the key vocabulary *predict* and encourage students to use their observations from the previous tests

Introduce the key vocabulary patterns. You can ask students

To check student understanding, you can look and listen for

Students can describe patterns, such as the ball going

a similar distance each time it is hit by the arm from the

in year 3 to think more deeply about motion patterns than



Every mini-golf hole needs a

Build a container for the ball

What kind of hit will move the ball all the way to the hole without going too far?

Use your previous tests to help you predict[®].

Demonstrate your perfect putt!

At what height did the ball get into the

what you learned

from your earlier

hole? How did you use

to drop into Explore using the gadget to hit the ball from different



10:00

previous tests to predict the right arm height to get the ball to the hole. Students can use their model to demonstrate how data

each other.)

following:

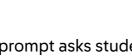
7 | Share Your Build

in this test. 8 | In Real Life Talk with students about ways to use observations to predict future motion. • What motion do you think will happen next to the child on the swing? How can you tell? What happens when you try to connect the same poles

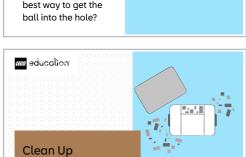
magnets? (It shows us to put magnets together with opposite poles facing if we want them to stick to each other.)

on magnets? (The magnets repel, or push away from

 How does seeing the magnets do this help you predict what will happen the next time we try to connect two



Show What You Know



write short notes in their notebook, draw pictures or use a combination of both.

10 | Clean Up

Depending on your students' abilities, you can ask them to

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Evaluate © 5 min. An optional evaluative prompt asks students to describe one motion pattern they observed with the golf gadget and how they used this to predict future motion.

Describe one pattern you saw

when the golf gadget hit the

ball from different

heights. How did it help you decide the