

LESSON 7: FOLLOWING BEARINGS

Grade-Level Outcomes

Primary Outcome

Lifetime activities: Demonstrates competency and/or refines activity-specific movement skills in 2 or more lifetime activities (outdoor pursuits, individual-performance activities, aquatics, net/wall games or target games). (S1.H1.L1)

Embedded Outcomes

Working with others: Solves problems and thinks critically in physical activity and/or dance settings, both as an individual and in groups. (S4.H4.L1)

Engages in physical activity: Participates several times a week in a self-selected lifetime activity, dance or fitness activity outside of the school day. (S3.H6.L1)

Lesson Objectives

The learner will:

- enter a given bearing and find a location.
- follow a route given compass bearings.
- complete an assessment of compass skills.

Equipment and Materials

- Compass (1/student)
- Pencil (1/student)
- Index card with a route developed from previous lesson (1/student)

Introduction

Here are your physical activity logs. I've made some comments with regard to how well you are meeting physical activity guidelines, so be sure to look them over to see if you should be making any adjustments. Last class, you learned how to take a bearing with a compass and use it to create a route. Today, you will build on these skills by following a given route and bearings. This will be a good check on how well you can use the compass.

Instructional Task: Review

■ PRACTICE TASK

Review the parts of a compass and how to take a bearing. Students practice taking bearings.

Student Choices/Differentiation

- Students may review a video clip.
- Use a poster to show names of compass parts.

What to Look For

- Students are using the compass confidently.
- Do students still have questions about how to take a bearing?

Instructional Task: Using a Given Bearing to Find a Location and Follow a Route

■ PRACTICE TASK

Demonstrate how to input a given bearing, and have students follow along. Emphasize the importance of accuracy. Repeat with different bearings.

Extensions

- Students check a route created by another group in the previous lesson. They write their findings, including a map of the route, on the index card they were given. They turn their cards in at the end of the lesson.
- Repeat with a different group's card.

EMBEDDED OUTCOME: S.4.H.4.1.1. Students need to analyze the route and apply their knowledge of bearings to be successful. Debrief about the challenges of following someone else's route.

Student Choices/Differentiation

This activity can be completed indoors or outdoors, depending on the circumstances of the previous lesson.

What to Look For

Students are making responsible decisions and staying on task.

Instructional Task: Compass Assessment

■ PRACTICE TASK

Give students index cards with a brief route to follow. Leave a note or symbol at the end of each route, and ask students to record what they found to ensure they got to the end.

Student Choices/Differentiation

Students could work in pairs or small groups.

What to Look For

- Students are completing the routes successfully.
 - Students are correctly following the bearings on the first try.
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Formal and Informal Assessments

- Compass assessment
- Physical activity log comments

Closure

- Why is accuracy so important?
- How might accuracy affect the safety of a hiker or hiking group?
- Next class, we will participate in a race. How might you and your partner work together to be fast yet accurate?

Reflection

- Were students able to check the routes successfully?
- Were they using their compasses more confidently after practicing a few times?
- What are they still having trouble with?

Homework

- Review the comments in your physical activity logs, and continue tracking your physical activity outside of school. (Embedded outcome: S3.H6.L1)
- Continue working on your severe conditions assignment.
- Next time, we'll try orienteering. Use the library or look up orienteering online so you have an idea of what it's all about.
- Practice using a compass at home, and try teaching someone to use it. You can use a compass or a device with a compass app on it.

Resources

Bruton Outdoor: www.brunton.com