

Transpiration Worksheet

Post-Lab Questions

- 1. Calculate the transpiration rate for each of your red kidney bean seedlings used in the experiment.
- 2. Write a paragraph explaining why the treatment caused an increase or decrease in transpiration compared with the normal room conditions. Include in this paragraph a discussion of the possible errors involved in the experiment and their effect on the results.

- 3. Why was it necessary to calculate the leaf surface area using an indirect method such as the balance (or gravimetric) method presented in this laboratory?
- 4. Explain the role transpiration (and therefore plants) play in the water cycle.
- 5. What is the advantage of closed stomata to a plant when water is in short supply? What are the disadvantages?

© 2019, Flinn Scientific, Inc. All Rights Reserved. Reproduction permission is granted from Flinn Scientific, Inc. Batavia, Illinois, U.S.A. No part of this material may be reproduced or transmitted in any form or by any means, electronic or mechanical, including, but not limited to photocopy, recording, or any information storage and retrieval system, without permission in writing from Flinn Scientific, Inc.