

Important Concepts . . .

Preview Review



Science

Grade 8 TEACHER KEY

W2 - Quiz

Important Concepts of Grade 8 Science

Materials Required

W1 - Lesson 1	Mass, Volume, and Density
W1 - Lesson 2	Solubility and Saturation Points
W1 - Lesson 3A.....	Viscosity, Flow Rate, and Buoyancy
W1 - Lesson 3B.....	Simple Machines
W1 - Lesson 4	Gears, Mechanical Advantage, Speed Ratios, and Efficiency
W1 - Lesson 5	Hydraulics and Pneumatics
W1- Quiz	
W2 - Lesson 1	The Role of Cells within Living Things, Cells-Tissue-Organ System
W2 - Lesson 2	The Microscope
W2 - Lesson 3	Body Systems Part 1
W2 - Lesson 4	Body Systems Part 2
W2 - Lesson 5	Problems Associated with Body Systems
W2 - Quiz	
W3 - Lesson 1	Transmission and Absorption of Light
W3 - Lesson 2	Reflection and Refraction of Light
W3 - Lesson 3A.....	Vision and Lenses
W3 - Lesson 3B..	Water in its Various States Affects Earth's Landforms and Climate
W3 - Lesson 4	Adaptations to Aquatic Ecosystems
W3 - Lesson 5	Water Quality
W3 - Quiz	

Textbook:
*Science in
Action 8*

Science Grade 8

Version 5

Preview/Review W2 - Quiz TEACHER KEY

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Preview/Review Concepts for Grade Eight Science

TEACHER KEY



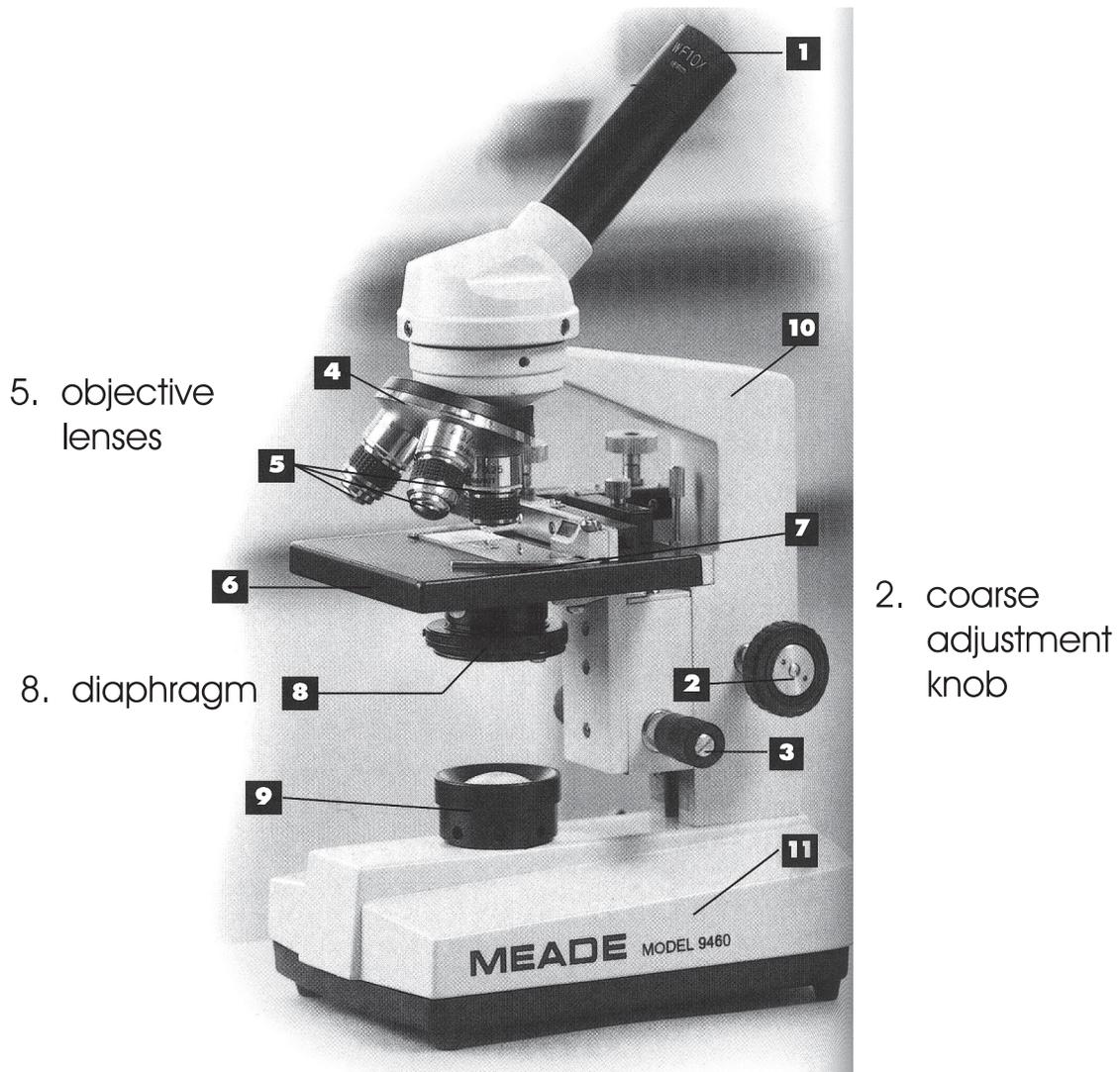
W2 - Quiz

W2 - Quiz

Total _____ /24

Part I: Diagram

Label the diaphragm, the coarse adjustment knob, and the objective lens on the following diagram. (3 marks)



Part II: Organize

Organize the following terms from least to most complex. (4 marks)

organ

cell

tissue

system

1. *cell*

2. *tissue*

3. *organ*

4. *system*

Part III: Short Answer

1. What is the function of the stage on a microscope? (1 mark)

 to hold the slide

2. If you are viewing a specimen on a light microscope, with an ocular lens 4X and an objective lens 50X, what is the total magnification of the specimen? Show your work. (2 marks)

 4 x 50 = 200X

3. Name one substance that you learned should not be found in urine. (1 mark)

 e.g. protein, blood cells, glucose/sugar

4. Chloroplasts and cell walls are found in *plant* cells. (1 mark)

5. What is the purpose of the respiratory system? (1 mark)

 to bring in oxygen and get rid of waste gases e.g., carbon dioxide

6. Name an advantage of being a multi-celled, rather than a single-celled organism. (1 mark)

can grow larger and carry out more complex functions/activities

7. What is atherosclerosis and how does it affect the circulatory system? (2 marks)

It is a build-up of cholesterol inside the circulatory system (blood vessels and heart). It plugs the blood vessels so blood can't travel through.

Part IV: Fill In The Blanks

Use terms from the following list to fill in the blanks of the sentences. Not all words will be used. (8 marks)

bladder	arteries	neurons	osmosis
veins	stomach	alveoli	kidney
specialized	diffusion	small intestine	
selectively permeable			

- Many particles move into cells through the process of *diffusion*.
- Cells that line the small intestine are *specialized*.
- Neurons* are the cells that transmit impulses in the nervous system.
- Absorption of nutrients takes place mainly in the *small intestine*.
- Blood leaves the heart in *arteries* and returns in *veins*.
- Urine is produced in the *kidneys*.
- Gases are exchanged in the *alveoli* of the lungs.
- Water moves into and out of cells by *osmosis*.

