

Plate Tectonics Project 板块构造论项目

English Name 英文名字: _____ Grade and Class 年级班级: _____ - _____

1. What is the diameter of the Earth? Some math is required.

地球的直径是多少? 用数学方法计算。

2. What is the difference between the outer and inner core?

外核与内核有什么区别?

3. What is the average movement of the earth's plates per year.

每年地表板块移动的平均幅度是多少?

4. How many theories are there that explain why the Earth's tectonic plates move?

解释板块移动的理论有多少个?

5. How many tectonic plates does the Earth have?

地表有多少个板块?

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6. What scientist theorized mantle dynamics?

哪一位科学家提出地幔动态论?

7. What type of plate movement forms mountain ranges, and or volcanos?

哪一种板块运动会形成山脉或火山?

8. Describe the two criteria required to form a tsunami.

描述形成海啸的两个要素。

9. What alternative term(s) could be used instead of the scientific term lithosphere.

科学术语“岩石圈”还可以怎么说?

10. What is a “Mega Thrust”?

什么是“特大推力”?

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X R T O U T E R C O R E D O C
K L G G G Y W H E E E H I B O
J A I H W Z J M E F F I V Q N
N N C T M A N T L E F R E D V
W F C Q H N D E G Y N Y R C E
L A K D W O T O L Y B F G K R
A J R Z A A S R Q V J H E E G
F B C R Z Y P P A S C J N K E
Q C J R I L L Z H N H G T G N
L X G X U D R D E E S U C R T
U T D E E S G R B U R F K A O
M J D V Y X T E A V J E O J B
A S T H E N O S P H E R E R K
S E U U P Z W D R W U C D C M
P M F I N N E R C O R E Q C U

Asthenosphere

Convergent

Crust

Divergent

Inner Core

Lithosphere

Mantle

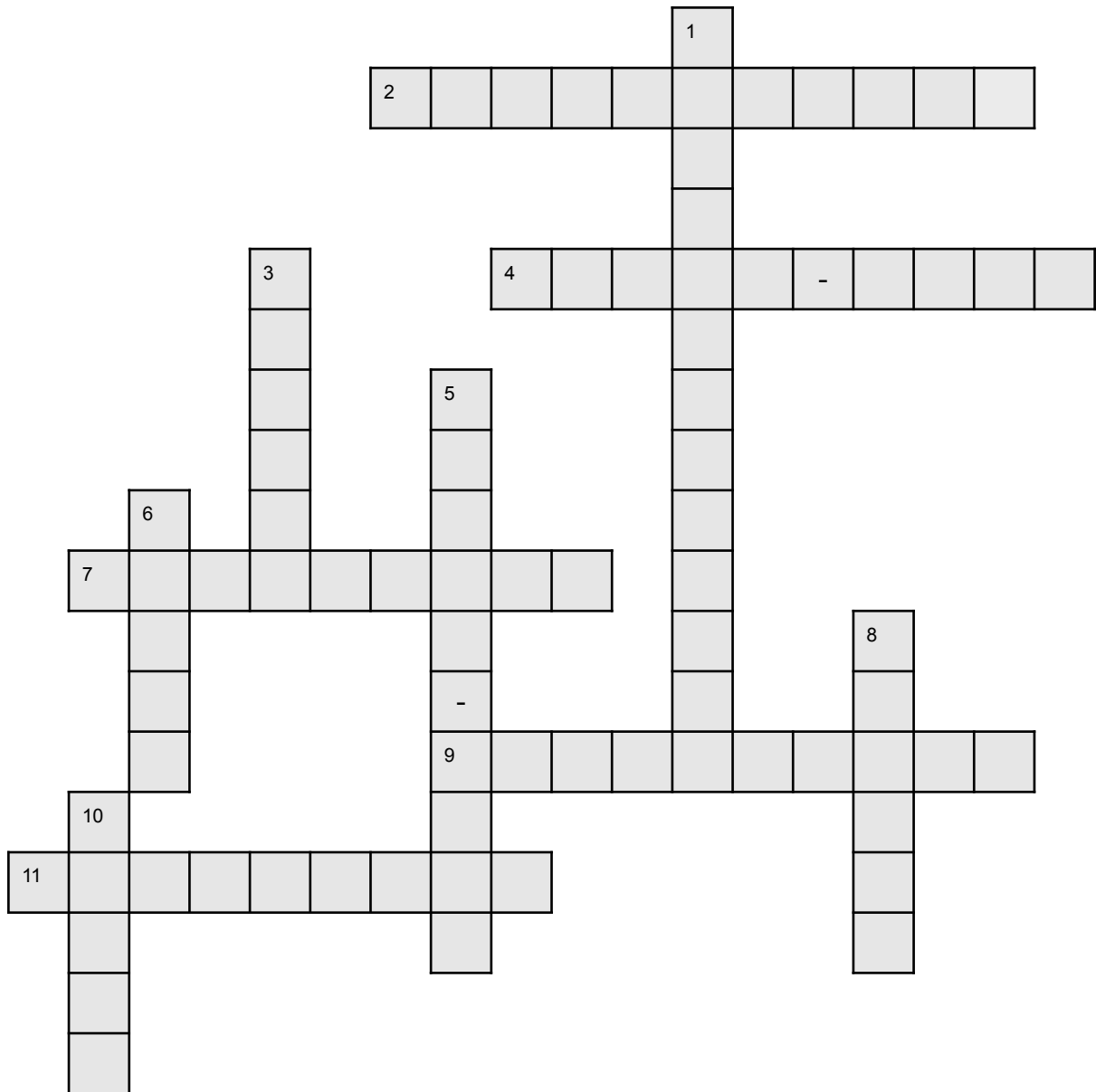
Outer Core

Ridge

Transform

Trench

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Across 横向

- 2. Ridged outer part of the Earth
地球凹凸不平的坚硬外壳
- 4. A dense solid iron sphere
致密的固体铁层
- 7. New crust is created
新的地壳板块形成
- 9. Old crust is destroyed
旧的地壳板块破坏
- 11. No effect on topography
地形上无变化

Down 纵向

- 1. Low resistance to movement
流动性大/对流强烈
- 3. Made of molten Rock
由熔融岩石构成
- 5. Consists of liquid iron
由液体铁构成
- 6. Formed on a Divergent fault
板块分离运动时形成
- 8. Formed on a Convergent fault
板块会聚运动时形成
- 10. Made of solid rock
由坚固的岩石构成